

ID		WBS	Task Name	Contact	Resource Initials	Duration
0			<b>D0 Grid Production Computing Initiative</b>	<b>ahnlein</b>		<b>166 days?</b>
1		<b>1</b>	<b>D0 Grid Production Architecture</b>	<b>AL</b>		<b>73 days</b>
2		1.1	INPUT: Original architecture document v1.2	AL	AL	0 days
3		1.2	High-level Architecture Document: draft - APIs, component responsibilities	AL	ASB,AL	7 days
4		1.3	milestone: Draft High-level Architecture Document	AL	AL	0 days
5		1.4	High-level Architecture Document: Review	AL	G,RDK,ASB	5 days
6		1.5	High-level Architecture Document: Revised version	AL	AL	8 days
7		1.6	High-level Architecture Document: Approval - ASB	AL	RDK	4 days
8		1.7	High-level Architecture Document: Approval - VW	AL	RDK	1 day
9		1.8	MILE 7: D0 Grid Production Architecture document done	AL		0 days
10		<b>2</b>	<b>Adjust Responsibilities among SamGrid, D0runjob, D0repro, automc tools</b>	<b>GG</b>		<b>156 days</b>
11		2.1	INPUT: Review of D0runjob interface	PM	PM	0 days
12		<b>2.2</b>	<b>Decouple D0runjob macro and SamGrid</b>	<b>GG</b>		<b>4 days</b>
13		2.2.1	INPUT: Interface changes documented	GG	PM	0 days
14		2.2.2	Decouple D0runjob macro and SamGrid development work	GG	PL	1 day
15		2.2.3	Decoupling: MC Job Type: SamGrid Integration	GG	PM	3 days
16		<b>2.3</b>	<b>Ability to store output at any stage on demand</b>	<b>GG</b>		<b>128 days</b>
17		2.3.1	Store output from any stage: SamGrid development/integration	GG	PM	1 day
18		2.3.4	Store output from any stage: Production-level test	GG	JS	1 day
19		2.3.5	MILE 22: Store output from any stage of processing	GG		0 days
20		<b>2.4</b>	<b>Start Prod via SAM Definition from Stage 2 of Prod: v1</b>	<b>GG</b>		<b>30 days</b>
21		2.4.1	INPUT: Start Prod at Stage 2: D0runjob development	GG	PL	0 days
22		2.4.2	Start Prod at Stage 2: SamGrid development/integration	GG	PM	21 days
23		2.4.3	Start Prod at Stage 2: Production-level test	GG	JS	3 days
24		2.4.4	MILE 2: Start (MC) Production at Stage 2 - Working	GG		0 days
25		<b>2.5</b>	<b>Error Recovery in Phased Processing</b>	<b>GG</b>		<b>35 days</b>
26		2.5.1	Error Recovery: SamGrid development/integration	GG	PM	1 day
27		2.5.2	Error Recovery: Production-level test	GG	JS	5 days
28		2.5.3	milestone: Error Recovery in Phased Processing	GG		0 days
29		<b>2.6</b>	<b>D0repro tools adapted to use Sam v7 request system</b>	<b>GG</b>		<b>127 days</b>
30		2.6.1	D0repro tools adaptation: First 50% implementation	DW	DW	40 days
31		2.6.2	D0repro tools adaptation: Next 40% implementation	DW	DW	32 days
32		2.6.3	D0repro tools adaptation: Request impact on SamGrid and/or D0runjob	GG	RDK,GG	4 days
33		2.6.8	D0repro tools adaptation: Fix python interface to SAM request system	AL	SS	12 days
34		2.6.9	D0repro tools adaptation: Final 10% implementation	DW	DW	9 days
35		2.6.4	D0repro tools adaptation: Use generic runjob interfaces in Samgrid for data processing App	GG	PM	14 days
36		2.6.10	D0repro tools adaptation: Define test dataset	GG	MD	1 day
37		2.6.5	D0repro tools adaptation: Adjust D0runjob to use request system	GG	PL,PM	25 days
38		2.6.11	D0repro tools adaptation: Production test	GG	MD	3 days
39		2.6.6	D0repro tools adaptation: MC Production test	GG	JS	3 days
40		2.6.7	MILE 14: D0repro-tools uses Sam v7 request system	GG		0 days
41		<b>2.7</b>	<b>Resolve how to add production paths in future</b>	<b>GG</b>		<b>13 days</b>

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42		2.7.1	Generalization of Job Types according to I/O Characteristics	GG	PM	7 days
43		2.7.2	Resolve how to add production paths in future: Document	GG	PM	4 days
44		2.7.3	Resolve how to add production paths in future: D0 Approval	GG	ASB	2 days
45		2.7.4	MILE 20: How to add production paths in future - resolved	GG		0 days
46	✓	<b>2.8</b>	<b>Support testing v7/d0runjob/SamGrid functionality</b>	<b>GG</b>		<b>82 days</b>
47	✓	2.8.1	Survey current understanding of testing procedures	GG	RDK	6 days
48	✓	2.8.2	D0GPCI FNAL testing meeting	GG		1 day
49	✓	2.8.3	Testing responsibilities, procedures proposal	GG	GG	12 days
50	✓	2.8.4	Agreement on Component and Integration testing	GG	GG,PL	8 days
51	✓	2.8.5	Evaluate how D0runjob should set up WN environment	GG	AB2	4 days
52	✓	2.8.6	D0runjob sets up its own environment	GG	PL	6 days
53	✓	2.8.7	Evaluate and sign-off on test facilities and procedures	GG	,PL,DW,JS	5 days
54	✓	2.8.8	MILE 18: Support testing v7/d0runjob/SamGrid functionality	GG		0 days
55	📅	<b>2.9</b>	<b>Start Prod via SAM Definition from Stage 2 of Prod: v2</b>	<b>GG</b>		<b>4 days</b>
56		2.9.1	Start Prod at Stage 2: SamGrid notification=all bug fix	GG	PM	2 days
57		2.9.2	Start Prod at Stage 2: Production-level re-test	GG	JS	2 days
58		2.9.3	milestone: Start Prod at Stage 2 Ready for Production Release	GG		0 days
59	📅	<b>2.10</b>	<b>Evaluate Extensions to Development</b>	<b>GG</b>		<b>8 days</b>
60	📅	2.10.1	D0runjob/SamGrid Decoupling: Skim Job Type	GG		0 days
61	📅	2.10.2	D0runjob/SamGrid Decoupling: Reco Job Type	GG		0 days
62	📅	2.10.3	D0runjob/SamGrid Decoupling: Merge Job Type	GG		0 days
63	📅	2.10.4	Start Prod via SAM Definition from Stage 3+ of Prod	GG		0 days
64		2.10.5	Fabric interface no longer dependent on Job Type	GG		0 days
65	📅	2.10.6	All merge code into D0runjob	PL		0 days
66	📅	2.10.7	Write evaluation of extensions to development	GG	GG	8 days
67		2.11	MILE 26: Tools have defined API, testing responsibilities	GG		0 days
68	📅	<b>3</b>	<b>Transition Operations Support from SamGrid Dev to Run2 Ops</b>	<b>GG,AL</b>		<b>156 days</b>
69		<b>3.1</b>	<b>Operations Documentation</b>	<b>AL</b>		<b>143 days</b>
70	✓	<b>3.1.1</b>	<b>Data Queues Doc</b>	<b>AL</b>		<b>67 days</b>
71	✓	3.1.1.1	INPUT: Data Queues Doc: Recent Draft	AL	AB2	0 days
72	✓	3.1.1.2	Data Queues Doc: Feed-back, update	AL	AB3,AB2	5 days
73	✓	3.1.1.3	Data Queues Doc: Approve	AL	AL	5 days
74	✓	3.1.1.4	Data Queues Doc: Integrate into SamGrid Documentation	AL	DZ,AL	1 day
75	✓	3.1.1.5	milestone: Data Queues Doc: Completed	AL		0 days
76	✓	<b>3.1.2</b>	<b>Forwarding Node Installation Doc</b>	<b>AL</b>		<b>68 days</b>
77	✓	3.1.2.1	INPUT: Fwd Node Install Doc: Recent Draft	AL	DZ	0 days
78	✓📅	3.1.2.2	Fwd Node Install Doc: Hardware prep attempt	AL	SS	25 days
79	✓📅	3.1.2.3	Fwd Node Install Doc: Feed-back	AL	SS	5 days
80	✓	3.1.2.4	Fwd Node Install Doc: Integrate Dehong and Steve's documents	AL	DZ,SS	5 days
81	✓	3.1.2.5	Fwd Node Install Doc: Approve	AL	AL	1 day
82	✓	3.1.2.6	Fwd Node Install Doc: Integrate into SamGrid Installation Manual	AL	DZ	2 days
83	✓	3.1.2.7	milestone: Fwd Node Install Doc: Completed	AL		0 days

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84	✓	3.1.3	<b>Integrating SRM Storage with SAM Doc</b>	GG		7 days
85	✓	3.1.3.1	SRM with SAM Doc: Integrate into SamGrid Documentation	GG	AB2	7 days
86	✓	3.1.3.2	milestone: SRM with SAM Doc: Completed	GG		0 days
87	📅	3.1.4	<b>Operations Policies Doc</b>	AL		98 days
88	✓	3.1.4.1	Operations Policies doc: Draft	AL	AL	1 day
89	✓	3.1.4.2	Operations Policies doc: Review	AL	GG,RDK	5 days
90	✓	3.1.4.3	Operations Policies doc: Revised version	AL	AL	12 days
91	✓	3.1.4.4	Operations Policies doc: Review, agreement	AL		7 days
92	✓	3.1.4.5	Operations Policies doc: Final version	AL	AL	8 days
93		3.1.4.8	Operations Policies doc: Stakeholder Review	AL	RDK	9 days
94		3.1.4.6	Operations Policies doc: Approve - CD, D0	AL	ASB,RDK	2 days
95		3.1.4.7	MILE 13: Grid Production Operations Policies doc done	AL		0 days
96		3.1.5	milestone: Operations Documentation completed	AL		0 days
97	✓	3.2	<b>Operations Reduction and Transfer Planning</b>	GG,AL		68 days
98	✓	3.2.1	<b>Current Operations Description</b>	GG		33 days
99	✓	3.2.1.1	INPUT: Write-up of operations issues	GG	GG	0 days
100	✓	3.2.1.2	Current Operations description: draft - level and causes	GG	GG	4 days
101	✓	3.2.1.3	Current Operations description: Review	GG	PM,RDK,AL	5 days
102	✓	3.2.1.4	Current Operations description: Revised version	GG	GG	2 days
103	✓	3.2.1.5	Current Operations description: Approve	GG	ASB	1 day
104	✓	3.2.1.6	milestone: Current Operations description	GG		0 days
105	✓	3.2.2	<b>Future Operations Staffing Doc</b>	AL		13 days
106	✓	3.2.2.1	INPUT: FY08 REX budget determined	RS	RS,AL	0 days
107	✓	3.2.2.2	Future Operations description: draft - acceptable load level and activities	AL	RS,AL	6 days
108	✓	3.2.2.3	Future Operations description: Review	AL	G,RDK,ASB	5 days
109	✓	3.2.2.4	Future Operations description: Approve	AL	ASB	2 days
110	✓	3.2.2.5	milestone: Future Operations description	AL		0 days
111	✓	3.2.3	<b>Operations Reduction Plan: "Road To Operations"</b>	GG		60 days
112	✓	3.2.3.1	INPUT: Operations Reduction plan: Monitoring, Alarms proposal	GG	AB2	0 days
113	✓	3.2.3.2	Operations Reduction plan: Overall draft	GG	GG	16 days
114	✓	3.2.3.3	Operations Reduction plan: Review	GG	SB,RDK,AL	5 days
115	✓	3.2.3.4	Operations Reduction plan: Revised version	GG	GG,AB2	10 days
116	✓	3.2.3.5	MILE 4: Operations Reduction plan: Working plan ready	GG		0 days
117	✓📅	3.2.3.6	Operations Reduction plan: Coordinate w/FEF	GG	GG	10 days
118	✓	3.2.3.7	Operations Reduction plan: Approve - CD, D0	GG	ASB,RDK	2 days
119	✓📅	3.2.3.8	milestone: Operations Reduction plan completed	GG		0 days
120	✓	3.2.4	milestone: Operations Reduction and Transfer Planning completed	GG		0 days
121	✓	3.3	<b>Operations Transfer Execution</b>	GG,AL		95 days
122	✓📅	3.3.1	<b>Operations Transfer: Phase 1 (Checklist)</b>	GG,AL		18 days
123	✓	3.3.1.1	<b>SamGrid Requests to Sam Issue Tracker</b>	GG,AL		2 days
124	✓	3.3.1.1.1	Request SamGrid Users to open tickets	GG,AL	GG	1 day
125	✓	3.3.1.1.2	Inform Sam shifters about handling SamGrid Requests	GG,AL	AL	1 day

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126	✓	3.3.1.1.3	milestone: SamGrid Requests to Sam Issue Tracker	GG,AL		0 days
127	✓	3.3.1.2	<b>SamGrid Operations Checklist</b>	GG		8 days
128	✓	3.3.1.2.1	Write-up checklist	GG	PM	1 day
129	✓	3.3.1.2.2	Review checklist	GG	GG,AL	3 days
130	✓	3.3.1.2.3	Revise checklist	GG	PM	3 days
131	✓	3.3.1.2.4	Checklist training, trial run	GG	PM,AL	0.5 days
132	✓	3.3.1.2.5	Fine-tune checklist per feed-back	GG	PM	0.5 days
133	✓	3.3.1.2.6	milestone: SamGrid Operations Checklist Transferred	GG		0 days
134	✓	3.3.1.3	<b>Adapt Operations Checklist to Ops-oriented Format</b>	AL	AL,GG	9 days
135	✓	3.3.1.3.1	Adapt to Ops-oriented format	AL	AL	5 days
136	✓	3.3.1.3.2	Review, sign-off by GG, AB2	AL	GG,AB2	4 days
137	✓	3.3.1.3.3	milestone: Adapt Operations Checklist to Ops-oriented Format	AL		0 days
138	✓	3.3.1.4	MILE 3: Manual Checklist - Phase 1/4 of Ops Transfer done	GG,AL		0 days
139	✓	3.3.2	<b>Operations Transfer: Phase 2 (Fwd Nodes, Stations)</b>	GG,AL		15 days
140	✓	3.3.2.1	REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort)	GG,AL	DEV,REX	15 days
141	✓	3.3.2.2	Topical Operations Training and Docs as requested by REX ops (Level of Effort)	GG,AL	DEV,REX	15 days
142	✓	3.3.2.3	MILE 5: Fwd Nodes - Phase 2/4 of Ops Transfer done	GG,AL		0 days
143	✓	3.3.3	<b>Operations Transfer: Phase 3 (Durable Locations, Queueing Nodes)</b>	GG,AL		15 days
144	✓	3.3.3.1	REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort)	GG,AL	DEV,REX	15 days
145	✓	3.3.3.2	Topical Operations Training and Docs as requested by REX ops (Level of Effort)	GG,AL	DEV,REX	15 days
146	✓	3.3.3.3	MILE 10: Queuing,Durable Nodes - Phase 3/4 of Ops Transfer done	GG,AL		0 days
147	✓	3.3.4	<b>Operations Transfer: Phase 4 (Jim Client, plus all else)</b>	GG,AL		15 days
148	✓	3.3.4.1	REX Ops co-performs ops tasks with SamGrid Dev (Level of Effort)	GG,AL	DEV,REX	15 days
149	✓	3.3.4.2	Topical Operations Training and Docs as requested by REX ops (Level of Effort)	GG,AL	DEV,REX	15 days
150	✓	3.3.4.3	MILE 21: Jim_Client+ - Phase 4/4 of Ops Transfer done	GG,AL		0 days
151	✓	3.3.5	milestone: Operations Transfer nominally completed	GG,AL		0 days
152	✓	3.4	<b>VDT Version Migration</b>	GG		63 days
153	✓	3.4.1	New VDT: VDT-oriented Testbed setup	GG	PM	8 days
154	✓	3.4.2	New VDT: VDT-oriented Testbed resetup	GG	PM	2 days
155	✓	3.4.3	New VDT: software adaptation and deployment	GG	PM	26 days
156	✓	3.4.5	MILE 9: SamGrid migrated to new VDT version	GG		0 days
157	✓	3.5	<b>Operations Reduction Execution: "Road To Operations"</b>	GG		111 days
158	✓	3.5.1	<b>Reinstall key machines with standard configuration</b>	GG		111 days
159	✓	3.5.1.1	Reach agreement among groups involved (by Sep 14)	GG	GG,AL	8 days
160	✓	3.5.1.2	<b>Reinstall Forwarding Nodes with standard configuration</b>	GG,AL		103 days
161	✓	3.5.1.2.1	Define standard fwd node machine configuration	GG	PM	2 days
162	✓	3.5.1.2.2	<b>Reinstall Forwarding Nodes: Oct 22- Nov 20</b>	GG		101 days
163	✓	3.5.1.2.2.1	Admins procure HW parts for all fwd nodes	GG	FEF	16 days
164	✓	3.5.1.2.2.2	<b>Reinstall Forwarding Node 1 (w/Sam Station)</b>	GG		20 days
165	✓	3.5.1.2.2.2.1	Admins configure candidate fwd node (by Oct 22)	GG	FEF	5 days
166	✓	3.5.1.2.2.2.2	Developers install and test candidate fwd node (by Fri Oct 26)	GG	PM	3 days
167	✓	3.5.1.2.2.2.4	Adjust current software to use standard location as default	GG	PM	1 day

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168	✓	3.5.1.2.2.2.3	Adjust current installation instructions	GG	PM	1 day
169	✓	3.5.1.2.2.2.5	REX ops re-installs on candidate machine	AL	SS	1 day
170	✓	3.5.1.2.2.2.7	Admins and REX ops configure production fwd node	AL	FEF,SS	1 day
171	✓	3.5.1.2.2.2.6	Switch candidate machine and d0srv047 (fwd + station) (Nov 6)	AL	SS	1 day
172	✓	3.5.1.2.2.2.9	Diagnose, resolve, document 32-bit/64-bit compatibility issues	GG,AL	PM,SS	4 days
173	✓	3.5.1.2.2.2.8	MILE 11: Forwarding Node w/Sam Station Reinstalled with std config	GG		0 days
174	✓	3.5.1.2.2.3	INPUT: Test of fail-over in production environment	GG	PM	0 days
175		3.5.1.2.2.4	<b>Reinstall Forwarding Node 2</b>	AL		28 days
176	✓	3.5.1.2.2.4.1	REX ops drains and take production fwd node offline (d0srv15): NO-OP	AL	SS	1 day
177	✓	3.5.1.2.2.4.2	REX ops installs software on new production fwd node (samgfwd02)	AL	SS	2 days
178	✓	3.5.1.2.2.4.6	REX ops tests new production fwd node (samgfwd02)	AL	SS	5 days
179	✓	3.5.1.2.2.4.7	Rex ops and SamGrid Dev resolve perl/VDT issues revealed in fwd node test	AL	SS,PM	8 days
180	✓	3.5.1.2.2.4.8	REX ops retests new production fwd node (samgfwd02)	AL	SS	6 days
181		3.5.1.2.2.4.3	Put new fwd node in production, drain old node (samgfwd02, old: d0srv15)	AL	SS	1 day
182		3.5.1.2.2.4.5	milestone: verified fwd node configuration and procedure	AL		0 days
183		3.5.1.2.2.5	<b>Reinstall Forwarding Node 3</b>	AL		4 days
184	✓	3.5.1.2.2.5.2	REX ops installs software on new production fwd node (samgfwd03)	AL	SS	1 day
185		3.5.1.2.2.5.5	REX ops tests new production fwd node (samgfwd03)	AL	SS	2 days
186		3.5.1.2.2.5.3	Put new fwd node in production, drain old node (samgfwd03, old: d0srv66)	AL	SS	1 day
187		3.5.1.2.2.7	MILE 15: OSG Fwd nodes reinstalled with std config	GG		0 days
188	✓	3.5.1.2.2.8	Organize activities to prepare for LCG fwd node migration	GG	GG	13 days
189		3.5.1.2.2.10	<b>Reinstall LCG/UK Forwarding Node</b>	AL		9 days
190		3.5.1.2.2.10.5	Site ops drains and take production fwd node offline	AL	LCG	5 days
191		3.5.1.2.2.10.6	REX ops installs software on LCG/UK fwd node	AL	SS	1 day
192		3.5.1.2.2.10.7	REX ops puts fwd node back into system	AL	SS	1 day
193		3.5.1.2.2.10.8	Site and REX ops configure production fwd node	AL	SS,LCG	2 days
194		3.5.1.2.2.10.9	milestone: LCG/UK Forwarding Node reinstalled with std config	AL		0 days
195		3.5.1.2.2.11	<b>Reinstall LCG/Germany Forwarding Node</b>	AL		8 days
196		3.5.1.2.2.11.15	Site ops drains and take production fwd node offline	AL	LCG	5 days
197		3.5.1.2.2.11.16	REX ops installs software on LCG/Germany fwd node	AL	SS	1 day
198		3.5.1.2.2.11.17	REX ops puts fwd node back into system	AL	SS	1 day
199		3.5.1.2.2.11.18	Site and REX ops configure production fwd node	AL	SS,LCG	1 day
200		3.5.1.2.2.11.19	milestone: LCG/Germany Forwarding Node reinstalled with std config	AL		0 days
201		3.5.1.2.3	milestone: Forwarding nodes reinstalled with standard configuration	GG		0 days
202	✓	3.5.1.3	<b>Reinstall Queuing Node with standard configuration</b>	GG,AL		70 days
203	✓	3.5.1.3.1	Define standard queuing node machine configuration	GG	PM	5 days
204	✓	3.5.1.3.2	<b>Reinstall Queuing Node: Oct 19 - Nov 6</b>	GG		21 days
205	✓	3.5.1.3.2.1	Admins procure HW parts for samgrid-like node (job queuing, broker, web server)	GG	FEF	12 days
206	✓	3.5.1.3.2.2	Admins configure test instance of samgrid-like node	GG	FGS	2 days
207	✓	3.5.1.3.2.3	Developers install and test samgrid-like node (by Wed Nov 7)	GG	PM	2 days
208	✓	3.5.1.3.2.4	Adjust current installation instructions	GG	PM	1 day
209	✓	3.5.1.3.2.5	Adjust current software to use standard location as default	GG	PM	1 day

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210	3.5.1.3.2.6	Admins configure production samgrid-like node	AL	FGS	1 day
211	3.5.1.3.2.7	REX ops installs queuing software on production samgrid-like node	AL	SS	1 day
212	3.5.1.3.2.9	Dev ops installs web server software on production samgrid-like node	AL	PM	1 day
213	<b>3.5.1.3.2.8</b>	<b>REX ops integrates new samgrid-like node into production system</b>	<b>AL</b>		<b>1 day</b>
214	3.5.1.3.2.8.1	Replace samgrid.fnal.gov (Dec 4 downtime, prefer Nov 6 downtime)	AL	SS	1 day
215	3.5.1.3.3	MILE 12: Queuing node reinstalled with std config	GG		0 days
216	3.5.1.3.4	Diagnose job history incompatibility issues and create migration plan	GG	PM,GG	3 days
217	3.5.1.3.11	Prepare for migration from mixed old/new samgrid nodes to new node use only	GG	PM,GG	5 days
218	3.5.1.3.5	Migrate MC Prod from mixed old/new samgrid nodes to new node use only	GG	JS	23 days
219	3.5.1.3.6	Migrate Prod from mixed old/new samgrid nodes to new node use only	GG	MD	7 days
220	3.5.1.3.12	Turn off old samgrid.fnal.gov (samgsrv1) - warn,do,check	GG	GG	6 days
221	3.5.1.3.8	milestone: Migration to exclusive use of new samgrid node completed	GG		0 days
222	<b>3.5.1.4</b>	<b>Reinstall Durable Locations with standard configuration</b>	<b>GG,AL</b>		<b>13 days</b>
223	3.5.1.4.1	Define standard durable location machine configuration	GG	PM	9 days
224	<b>3.5.1.4.2</b>	<b>Reinstall Durable Locations: Nov 9 - Nov 28</b>	<b>GG</b>		<b>4 days</b>
225	3.5.1.4.2.1	MOOT: Admins procure HW parts(?) for test instance of durable location node	GG	FEF	0 days
226	3.5.1.4.2.2	MOOT: Admins configure test instance of durable location node (by Fri Nov 9)	GG	FEF	0 days
227	3.5.1.4.2.3	MOOT: Developers install and test durable location node (by Fri Nov 23)	GG	PM	0 days
228	3.5.1.4.2.4	Durable Locations: Adjust current installation instructions	GG	PM	1 day
229	3.5.1.4.2.5	MOOT: Adjust current software to use standard location as default	GG	PM	0 days
230	3.5.1.4.2.6	MOOT: REX ops re-installs on test machine	AL	SS	0 days
231	<b>3.5.1.4.2.7</b>	<b>REX ops reconfigures existing durable locations</b>	<b>AL</b>		<b>0 days</b>
232	3.5.1.4.2.7.1	MOOT: Stop tmb upload to d0srv063; REX ops reinstalls durable location	AL	SS	0 days
233	3.5.1.4.2.7.2	MOOT: Stop tmb upload to d0srv065; REX ops reinstalls durable location	AL	SS	0 days
234	3.5.1.4.3	MILE 17: Durable Locations reinstalled with std config	GG		0 days
235	3.5.1.5	milestone: Standard configuration defined and key machines reinstalled	GG		0 days
236	<b>3.5.8</b>	<b>Create SamGrid Test Stand</b>	<b>AL</b>		<b>12 days</b>
237	3.5.8.1	REX ops installs software on test fwd node (d0srv15)	AL	SS	1 day
238	3.5.8.2	Admins fix disk on test queue node (old samgrid)	AL	FEF	4 days
239	3.5.8.5	REX ops installs software on test queue node (old samgrid)	AL	SS	1 day
240	3.5.8.6	REX ops installs durable locations test machine	AL	SS	1 day
241	3.5.8.3	Trial use of SamGrid test stand	AL	SS	2 days
242	3.5.8.4	milestone: SamGrid test stand completed	AL		0 days
243	<b>3.5.2</b>	<b>Automate routine maintenance operations</b>	<b>GG</b>		<b>19 days</b>
244	<b>3.5.2.1</b>	<b>Automatic clean up of job queues</b>	<b>GG</b>		<b>19 days</b>
245	3.5.2.1.3	Dev tools to auto-clean up SamGrid job queue in samgrid_util	GG	PM	2 days
246	3.5.2.1.4	Deploy/observe tools for SamGrid job queue	GG	PM,SS	3 days
247	3.5.2.1.5	Dev tools to auto-clean up OSG job queue in samgrid_util	GG	PM	2 days
248	3.5.2.1.2	Deploy/observe tools for auto-clean up for OSG job queue	GG	PM,SS	3 days
249	3.5.2.1.6	Upgrade samgrid_util on Fwd Node 1 to include auto-cleanup changes	GG	SS	3 days
250	<b>3.5.2.2</b>	<b>Automatic clean-up of disk areas</b>	<b>GG</b>		<b>12 days</b>
251	3.5.2.2.1	Resolve: Globus gatekeeper does not properly cleanup gass caches	GG	PM	1 day

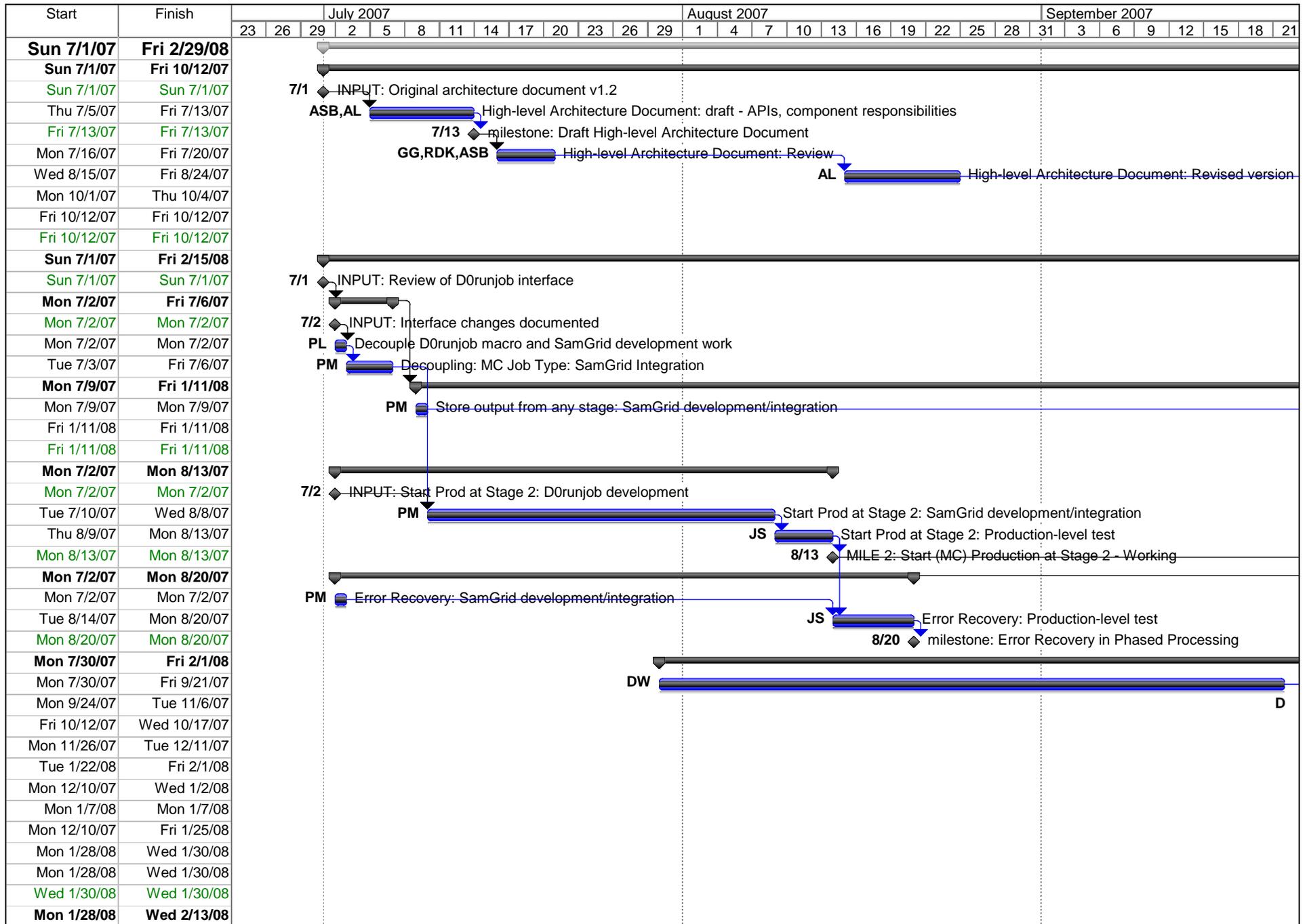
ID		WBS	Task Name	Contact	Resource Initials	Duration
252	✓	3.5.2.2.2	Periodically clean up gram log files at fwd nodes and exec sites	GG	PM	1 day
253	✓	3.5.2.2.3	Clean up sandboxes and jim_tmp areas at fwd node	GG	PM	1 day
254		3.5.2.2.4	Clean up non-rotated log files (eg. Tomcat)	GG	PM	3 days
255		3.5.2.3	Automation of all gridmap file management (including condor_schedd)	GG	PM	3 days
256	✓	3.5.2.4	Simplify maintenance of automatic clean-up scripts for durable locations	GG	AB2	5 days
257	✓	3.5.2.5	Add the deployment of scripts to installation instructions	GG	PM	1 day
258		3.5.2.7	MILE 23: Routine maintenance operations automated	GG		0 days
259		3.5.3	<b>Improve robustness of key services</b>	GG		6 days
260		3.5.3.2	Improve algorithm for selection of OSG resources	GG	PM	6 days
261		3.5.3.3	milestone: Robustness in key services improved	GG		0 days
262		3.5.4	<b>Automatic handling of job log files</b>	GG		103 days
263	✓	3.5.4.1	Reduce size of output sandbox	GG	AB2	1 day
264	✓	3.5.4.2	Make output sandbox space management more robust	GG	AB2	1 day
265	✓	3.5.4.3	Transfer output sandbox selection logic to Runjob: Initial Pass	GG	PL	20 days
266	✓	3.5.4.8	Transfer output sandbox selection logic to Runjob: Test, add old/new support	GG	AB2	8 days
267	✓	3.5.4.10	Transfer output sandbox selection logic to Runjob: Final testing	GG	AB2	10 days
268		3.5.4.7	Transfer output sandbox selection logic to Runjob: Post-Testing work	GG	PL	2 days
269	✓	3.5.4.9	<b>Logfile Access Tools</b>			23 days
270	✓	3.5.4.9.1	Specify tools for accessing old logfiles	GG	MD	5 days
271	✓	3.5.4.9.2	Provide tools (to MD) for accessing old logfiles	GG	AB2	6 days
272	✓	3.5.4.9.3	Test logfile access tools	GG	MD	5 days
273	✓	3.5.4.9.4	Revise tools given customer feedback	GG	AB2	2 days
274		3.5.5	<b>Automate system health alarms</b>	GG		91 days
275	✓	3.5.5.1	<b>NGOP central service</b>	GG		66 days
276	✓	3.5.5.1.1	Define hardware	GG	AB2	1 day
277	✓	3.5.5.1.2	Install basic NGOP server	GG	AB2	1 day
278	✓	3.5.5.1.4	Deploy and test best schema as depicted	GG	AB2	1 day
279	✓	3.5.5.1.5	Understand SAM-Grid representation requirements: Dev part	AL	AB2	5 days
280	✓	3.5.5.1.6	Understand SAM-Grid representation requirements: Ops part	AL	RH	5 days
281	✓	3.5.5.1.9	Static NGOP configuration approach (instead of automated)	AL	AB2,REX	8 days
282	✓	3.5.5.1.8	milestone: NGOP central service prepared	GG		0 days
283	✓	3.5.5.2	<b>Samgrid_mon</b>	GG		19 days
284	✓	3.5.5.2.1	Develop persistent environment for repetitive task execution	GG	AB2	10 days
285	✓	3.5.5.2.2	Develop converter between SamGrid config and next-gen cron	GG	AB2	5 days
286	✓	3.5.5.2.4	Store duplicate configuration of fwd node	GG	AB2	1 day
287	✓	3.5.5.2.5	Accept existing configuration of fwd node	GG	AB2	1 day
288	✓	3.5.5.2.6	Dispatch list of monitoring agents periodically, collect statuses	GG	AB2	1 day
289	✓	3.5.5.2.7	Create distributable UPD package	GG	AB2	1 day
290	✓	3.5.5.2.8	milestone: Samgrid_mon developed	GG		0 days
291	✓	3.5.5.3	<b>Develop monitoring scripts</b>	GG		13 days
292	✓	3.5.5.3.1	Develop generic scripts for Gridftp and Fcp monitoring	GG	AB2	1 day
293	✓	3.5.5.3.3	Data Nodes: Stager, Durable location, caches, Gridftp, Fcp	GG	AB2	6 days

ID		WBS	Task Name	Contact	Resource Initials	Duration
294	✓	3.5.5.3.2	Forwarding Node: Gridftp, Fcp, Jim_advertise, XML db, Sandbox, opt. sched. component	GG	AB2	6 days
295	✓	3.5.5.3.4	milestone: Monitoring scripts developed	GG		0 days
296	✓	3.5.5.5	Assess automation of alarming systems	GG	AB2	2 days
297	✓	3.5.5.6	Integration deployment and testing	GG	AB2	4 days
298	✓	3.5.5.7	Documentation Initiation	GG	AB2	5 days
299	✓	3.5.5.4	MILE 19: System health alarms deployed via NGOP with static config	GG		0 days
300	✓	3.5.5.12	Generate NGOP agents from set of monitoring scripts and config	GG	AB2	2 days
301		3.5.5.14	Documentation Completion	GG	AB2	12 days
302	📅	3.5.5.15	Create NGOP config baseline, support process, training	AL	AL,AB2	10 days
303		3.5.5.8	milestone: System health alarms via NGOP with sustainable process	GG		0 days
304	✓	3.5.6	<b>Improve system testing infrastructure</b>	GG		3 days
305	✓	3.5.6.1	<b>Simplify running test jobs</b>	GG		3 days
306	✓	3.5.6.1.1	Create test parameters for all job types	GG	AB2	1 day
307	✓	3.5.6.1.2	Create and distribute JDL templates with test parameters	GG	AB2	1 day
308	✓	3.5.6.1.3	Write testing instructions	GG	AB2	1 day
309	✓	3.5.6.1.4	milestone: Running test jobs simplified per request	GG		0 days
310		3.5.7	milestone: End of the Road to Operations	GG		0 days
311	✓	3.7	<b>Other Operations-related Fixes and Upgrades</b>	GG		108 days
312	✓	3.7.1	Clarify D0 certificate approval process, personnel	GG	GG	5 days
313	✓	3.7.5	Investigate "Immortal Jobs" Operations Issue	GG		0 days
314		3.8	MILE 27: Close-out of Ops Reduction/Transfer completed	GG		0 days
315	📅	4	<b>D0 Primary Production on Fermigrid</b>	MD		156 days
316	✓	4.1	<b>Initial Commissioning</b>	MD		9 days
317	✓	4.1.1	INPUT: Attempt to run D0 Primary Production on FermiGrid	MD	MD	0 days
318	✓	4.1.2	OSG/Fermigrid Resource Selection Meeting	MD	MD	0.5 days
319	✓	4.1.3	Config D0Production role: Fermigrid, GUMS, CAB, PBS, etc.	ST,FEF	MD	6 days
320	✓	4.1.4	Run D0 Primary Prod via D0Production role	MD	MD	1 day
321	✓	4.1.5	MILE 1: D0 Primary Production Runnable on Fermigrid	MD		0 days
322	✓	4.2	D0PPF Commissioning Evaluation Meeting	RDK		1 day
323		4.3	<b>Stable Operations</b>	MD		117 days
324	✓	4.3.1	<b>Commissioning Follow-up</b>	MD		9 days
325	✓	4.3.1.1	Fix d0srv065 storage issues	MD	MD	3 days
326	✓	4.3.1.2	Run D0 Primary Prod to verify storage fix	MD	MD	3 days
327	✓	4.3.1.3	Scale-up D0 Primary Prod to 200 nodes	MD	MD	3 days
328	✓	4.3.1.4	milestone: D0PPF Stable Ops: Commissioning follow-up completed	MD	MD	0 days
329		4.3.2	<b>Management Processes and Documentation</b>	MD		117 days
330	✓	4.3.2.1	Implement Change Management for feature requests using SAM IssueTracker	MD		1 day
331	✓	4.3.2.2	Establish service level for stable operations and implications on system config	MD,GG,PM,JS		5 days
332	✓	4.3.2.3	Grid Production System workflow/dataflow diagram - draft	RDK	RDK	3 days
333	✓	4.3.2.4	Grid Production System info on diagram: node roles, software, maintainers	RDK	RDK,AB2	2.5 days
334	📅	4.3.2.8	Grid Production System workflow/dataflow diagram - final	RDK	RDK	5 days
335	✓	4.3.2.5	Open Science Enclave baseline security plan - implications on SamGrid, CAB	MD	MD,GG,FEF	20 days

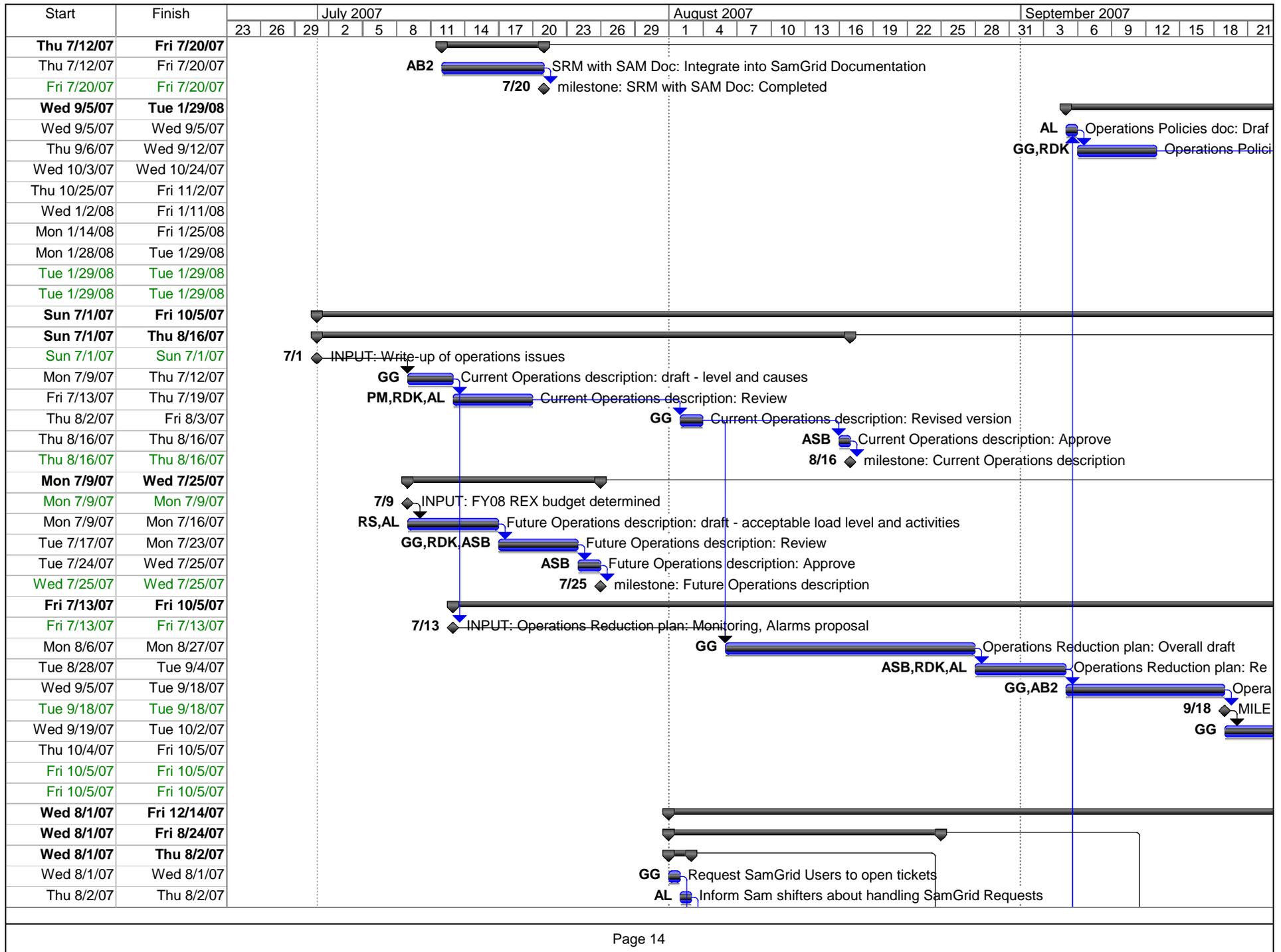
ID	WBS	Task Name	Contact	Resource Initials	Duration
336	4.3.2.6	Job State diagram with most common error state causes	MD	PM	5 days
337	4.3.2.7	milestone: D0PPF Stable Ops: Management Processes and Documentation done	MD		0 days
338	4.3.3	<b>System Monitoring</b>	MD		<b>29 days</b>
339	4.3.3.1	CAB web monitoring changes requested by MD,JS	RDK	FEF	24 days
340	4.3.3.2	Improve job monitoring, include trend plots	RDK	EXT	5 days
341	4.3.3.3	Augment Job States to be more meaningful to large customer	MD	EXT	5 days
342	4.3.3.4	milestone: D0PPF Stable Ops: System Monitoring done	MD		0 days
343	4.3.4	<b>Specific System Services Issues</b>	MD		<b>65 days</b>
344	4.3.4.1	Allow access by MD to dir/files on CAB owned by dzeropro (suggested: get root access)	MD	MD	5 days
345	4.3.4.2	JIM production release consistent with d0runjob v7-7-3 and higher	MD	MD	5 days
346	4.3.4.3	Evaluate use of ReSS (more flexible than use of roles)	GG	GG	28 days
347	4.3.4.5	Adapt to use ReSS in D0GPCI	GG	GG	22 days
348	4.3.4.4	milestone: D0PPF Stable Ops: Specific System Services done	MD		0 days
349	4.3.5	<b>General System Services Issues (Road to Operations)</b>	GG		<b>102 days</b>
350	4.3.5.1	INPUT: (3.5.1) Standardize file system layout on SamGrid nodes	GG		0 days
351	4.3.5.2	INPUT: (3.5.1) Get all nodes governing operation in a consistent, known state	GG		0 days
352	4.3.5.3	INPUT: (3.5.4) Evaluate how to reduce bandwidth consumed by moving logs	GG		0 days
353	4.3.5.4	INPUT: (3.5.4) Make Custom output support smarter, use compression	GG	AB2	0 days
354	4.3.5.5	INPUT: (3.5.4) Migrate Custom output support from SAM wrapper to D0runjob	GG		0 days
355	4.3.5.6	INPUT: (3.5.4) Implement a logfile archive node	GG		0 days
356	4.3.5.7	milestone: D0PPF Stable Ops: General System Services done	GG		0 days
357	4.4	D0PPF Operations Evaluation Meeting	RDK		1 day
358	4.7	MILE 28: D0 Primary Production Stable on Fermigrid	MD		0 days
359	5	<b>Extend Grid Production System Functionality</b>	GG		<b>83 days</b>
360	5.1	<b>Forwarding Node Behind Firewall</b>	GG		<b>5 days</b>
361	5.1.1	Forwarding Node Behind Firewall: Evaluate, determine best course of action	GG	AB2	5 days
362	5.2	<b>Minimal Resource Brokering</b>	GG		<b>20 days</b>
363	5.2.1	Minimal Resource Brokering: Evaluate, determine best course of action	GG	GG	20 days
364	5.3	MILE 16: Grid Production System functionality completed	GG		0 days
365	6	<b>Preparation of D0 Apps for Long-term</b>	ASB		<b>73 days</b>
366	6.1	<b>Skimming</b>	HG		<b>0 days</b>
367	6.1.1	Productize Skimming	RDK		0 days
368	6.2	<b>CAF Trees</b>			<b>0 days</b>
369	6.2.1	Productize CAF Tree generation	RDK		0 days
370	6.3	<b>Raw2Sim</b>			<b>0 days</b>
371	6.3.1	Productize Raw2Sim	RDK		0 days
372	6.4	<b>AADST</b>			<b>73 days</b>
373	6.4.1	Productize AADST	RDK		0 days
374	6.4.3	Enable data migration to SAM storage	AL	AL	2 days
375	6.4.4	Track data migration to SAM storage	AL	AL	59 days
376	6.4.5	Perform data migration to SAM storage	AL	D0	64 days
377	6.8	Write recommendations for productization of D0 Apps	RDK	RDK	5 days

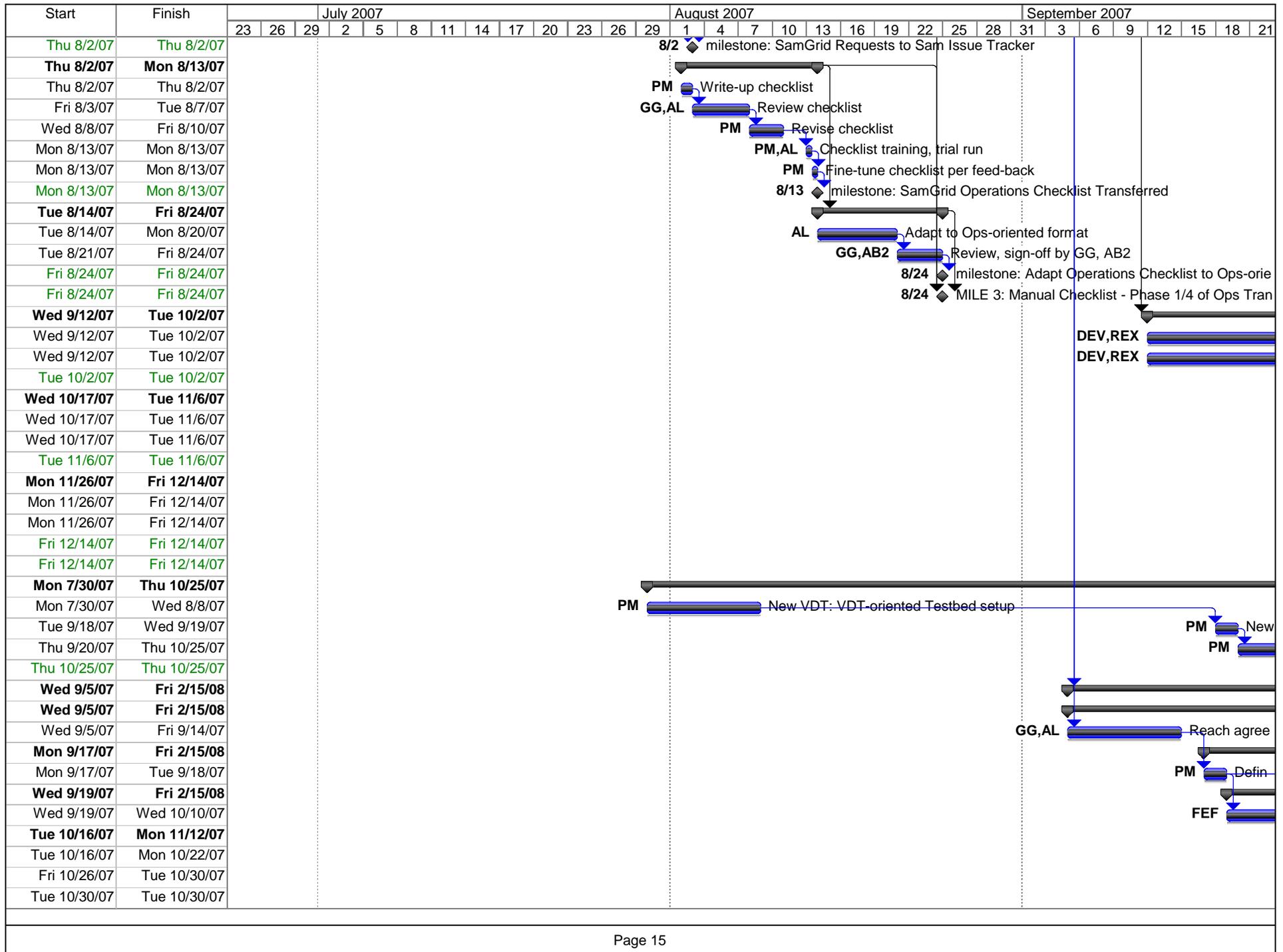
ID	WBS	Task Name	Contact	Resource Initials	Duration
378	6.5	MILE 24: Preparation of D0 Apps for long-term	ASB		0 days
379	7	<b>Evaluation of D0 SamGrid Requests</b>	RDK		73 days
380	7.1	<b>Reco</b>			0 days
381	7.1.1	EVAL: Ability to merge more than 1 stream from Reco	RDK		0 days
382	7.2	<b>MC Production</b>			0 days
383	7.2.1	EVAL: Ability to run TrigSim in MC Production	RDK		0 days
384	7.3	<b>Skimming</b>			0 days
385	7.3.1	EVAL: Skimming in Production	RDK		0 days
386	7.4	EVAL: Fixing			0 days
387	7.5	<b>Raw2Sim</b>			0 days
388	7.5.1	EVAL: Run raw2sim on minbias files	RDK		0 days
389	7.6	<b>Reco-cert</b>			73 days
390	7.6.1	EVAL: Merging of reco-cert files	RDK		0 days
391	7.6.2	<b>Stand-alone production of reco-cert output on SamGrid</b>			9 days
392	7.6.2.1	Develop WBS for implementing S/A Recocert on SamGrid	RDK	RDK	9 days
393	7.7	<b>CAF Trees</b>			0 days
394	7.7.1	EVAL: CAF Trees from Production	RDK		0 days
395	7.8	EVAL: MC CAF Trees	RDK		0 days
396	7.9	EVAL: AADST	RDK		0 days
397	7.10	EVAL: Grid Analysis	RDK		0 days
398	7.12	<b>Evaluate remaining D0 SamGrid Requests</b>	RDK		73 days
399	7.12.2	Develop generic WBS for adapting D0 Apps to Grid Production	RDK	RDK	9 days
400	7.12.3	Create form to capture D0 App requirements, workflow, use patterns	RDK	RDK	5 days
401	7.12.4	Create maintainable list of known portability issues for D0 Apps on Grid	RDK	RDK	5 days
402	7.12.1	Write evaluation of requests based on generic WBS	RDK	RDK	5 days
403	7.12.5	D0 SamGrid Requests Evaluation: Review	RDK		5 days
404	7.12.6	D0 SamGrid Requests Evaluation: Revision	RDK	RDK	1 day
405	7.12.7	D0 SamGrid Requests Evaluation: Approval	RDK		1 day
406	7.11	MILE 25: Evaluation of D0 SamGrid Requests done	RDK		0 days
407	8	<b>Project Management</b>	RDK		166 days
408	8.1	INPUT: Draft Preliminary High-level WBS	RDK	RDK	0 days
409	8.2	<b>Initiative Coordination Meeting</b>	RDK		151.13 days
410	8.2.1	Initiative Coordination Meeting 1	RDK		1 hr
411	8.2.2	Initiative Coordination Meeting 2	RDK		1 hr
412	8.2.3	Initiative Coordination Meeting 3	RDK		1 hr
413	8.2.4	Initiative Coordination Meeting 4	RDK		1 hr
414	8.2.5	Initiative Coordination Meeting 5	RDK		1 hr
415	8.2.6	Initiative Coordination Meeting 6	RDK		1 hr
416	8.2.7	Initiative Coordination Meeting 7	RDK		1 hr
417	8.2.8	Initiative Coordination Meeting 8	RDK		1 hr
418	8.2.9	Initiative Coordination Meeting 9	RDK		1 hr
419	8.2.10	Initiative Coordination Meeting 10	RDK		1 hr

ID		WBS	Task Name	Contact	Resource Initials	Duration
420	✓	8.2.11	Initiative Coordination Meeting 11	RDK		1 hr
421	✓	8.2.12	Initiative Coordination Meeting 12	RDK		1 hr
422	✓	8.2.13	Initiative Coordination Meeting 13	RDK		1 hr
423	✓	8.2.16	Initiative Coordination Meeting 14	RDK		1 hr
424	✓	8.2.14	Initiative Coordination Meeting 15	RDK		1 hr
425	✓	8.2.17	Initiative Coordination Meeting 16	RDK		1 hr
426	📅	8.2.15	Initiative Coordination Meeting 17	RDK		1 hr
427	📅	8.2.19	Initiative Coordination Meeting 18	RDK		1 hr
428	📅	8.2.18	Initiative Coordination Meeting 19	RDK		1 hr
429	✓	<b>8.3</b>	<b>Project Planning</b>	<b>RDK</b>		<b>78.9 days</b>
430	✓📅	8.3.1	WBS/Schedule v0.8 for 3/7 objectives	RDK	RDK	10 days
431	✓📅	8.3.2	milestone: WBS/Schedule v0.8, begin weekly status'ing	RDK		0 days
432	✓	8.3.3	WBS/Schedule v0.9 for 5/7 objectives	RDK	RDK	13 days
433	✓📅	8.3.4	milestone: Plan v0.9 sufficient to drive near-term work	RDK		0 days
434	✓	8.3.5	Draft WBS/Schedule v1.0 for 7/7 objectives	RDK	RDK,GG	32 days
435	✓	8.3.6	Big Baseline Planning Meeting	RDK		1 day
436	✓	8.3.7	Create Baseline Project Plan v1.0	RDK	RDK	2 days
437	✓📅	8.3.8	MILE 6: Baseline Project Plan v1.0 released	RDK		0 days
438	✓	8.3.9	Baseline Project Plan: Executive Presentations	RDK	RDK	4 days
439	✓	8.3.12	Baseline Project Plan v1.0: Integrate feed-back	RDK	RDK	2 days
440	✓	8.3.13	Baseline Plan Project v1.1: Drop tasks pushed out past end of Initiative	RDK	RDK	2 days
441	✓📅	8.3.14	MILE 8: Project Plan v1.1	RDK		0 days
442		<b>8.4</b>	<b>Project Administration</b>	<b>RDK</b>		<b>144.9 days</b>
443	✓	8.4.1	Planning Phase (Level of Effort = 5%)	RDK	RDK	48 days
444		8.4.2	Execution Phase (Level of Effort >= 15%)	RDK	RDK	77 days
445		<b>8.5</b>	<b>Project Close-out</b>	<b>RDK</b>		<b>10 days</b>
446	📅📅	8.5.1	Project Close-out Meeting	RDK	RDK	1 day
447		8.5.2	Project Close-out Report	RDK	RDK	5 days
448		8.5.3	Project Close-out Report Approval: ABS, CD	RDK	ASB,RDK	3 days
449		8.5.4	Archive project artifacts	RDK	RDK	1 day
450		8.5.5	milestone: Initiative Closed-out	RDK		0 days
451		9	MILE 29: D0 GPC Initiative completed	ASB		0 days
452		12				1 day?









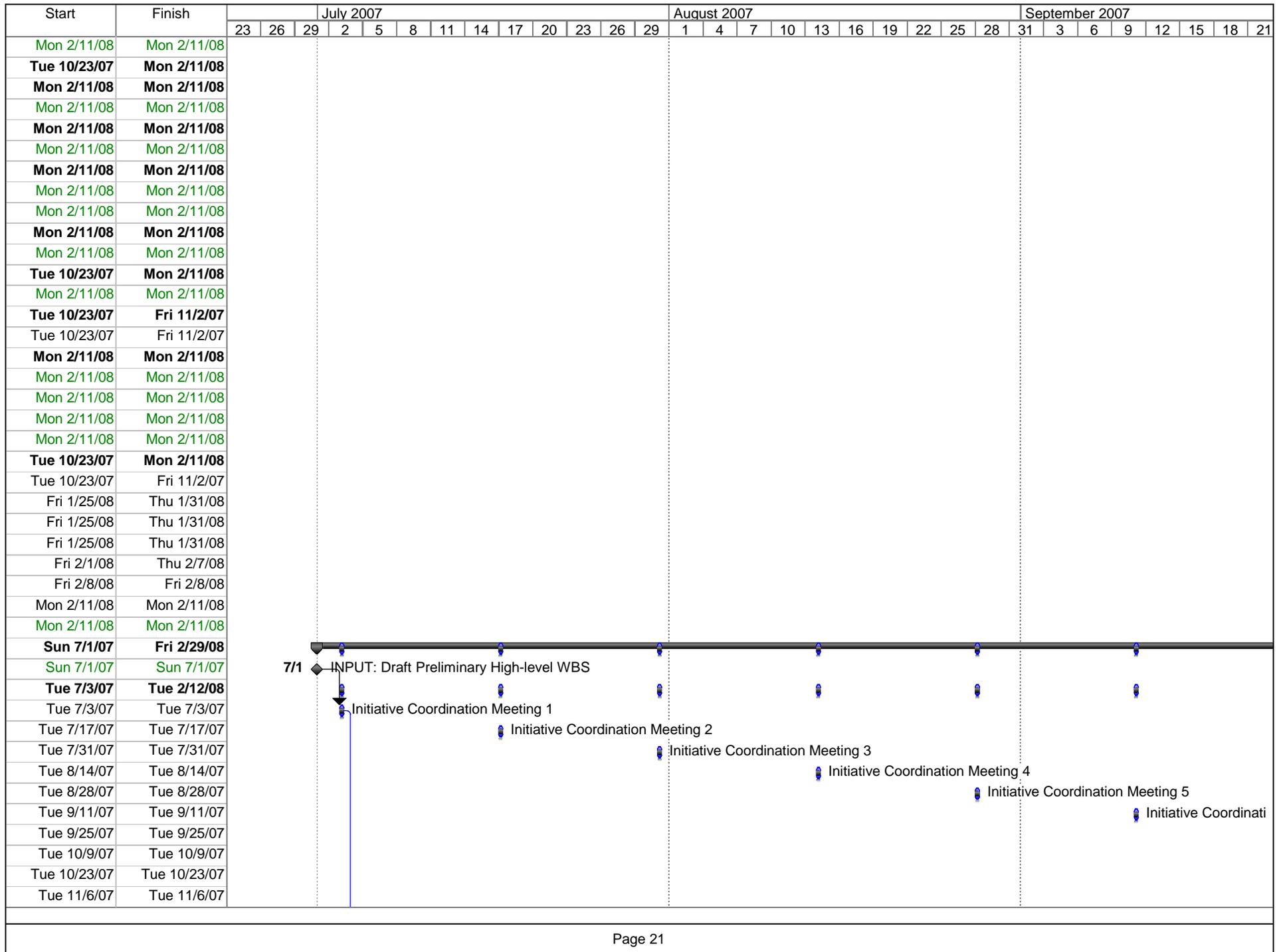
Start	Finish	July 2007											August 2007											September 2007									
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<b>Tue 10/2/07</b>	<b>Tue 1/15/08</b>																																
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<b>Tue 10/9/07</b>	<b>Tue 11/6/07</b>																																
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Wed 10/31/07	Wed 10/31/07																																
Thu 11/1/07	Thu 11/1/07																																



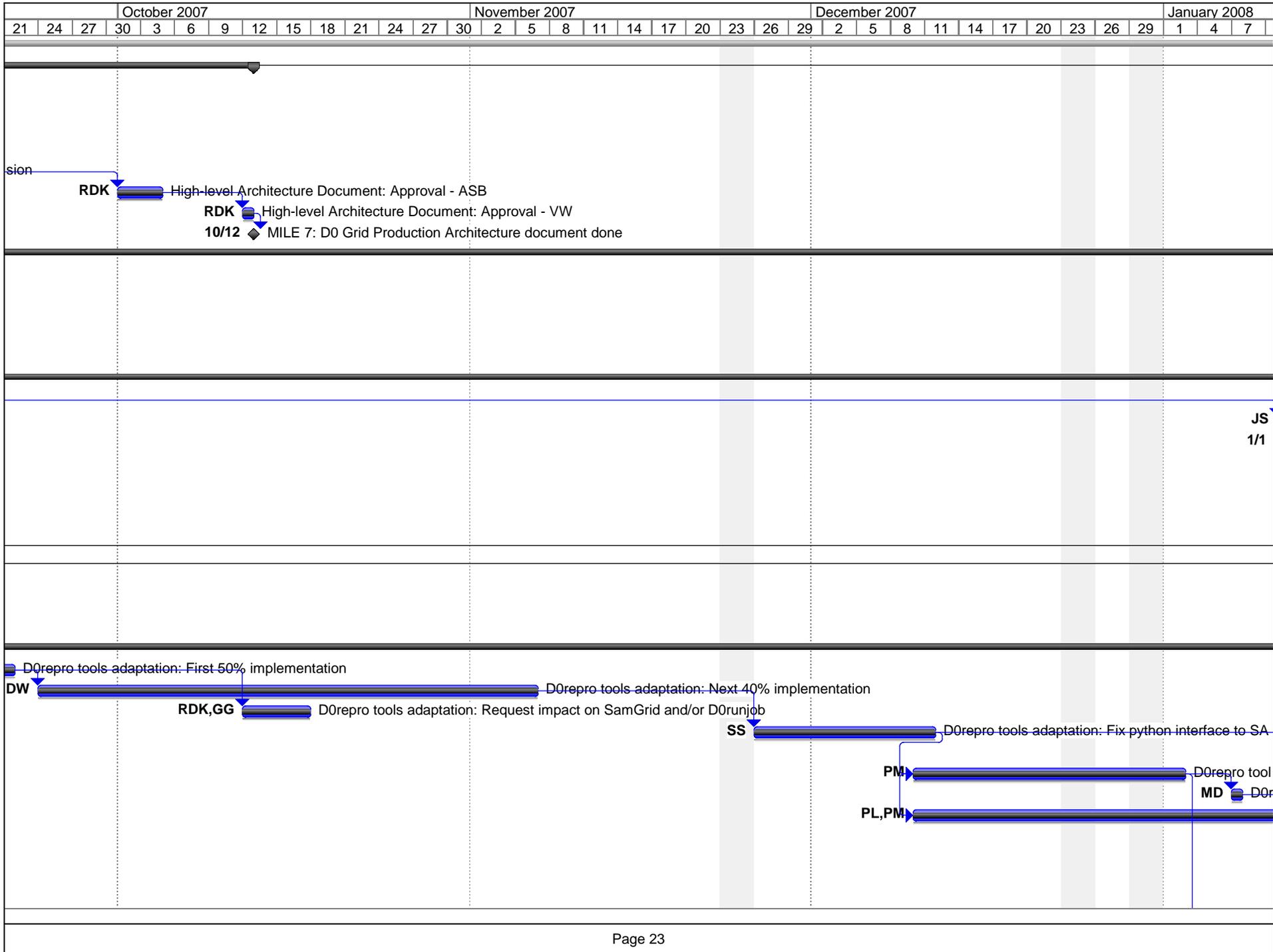


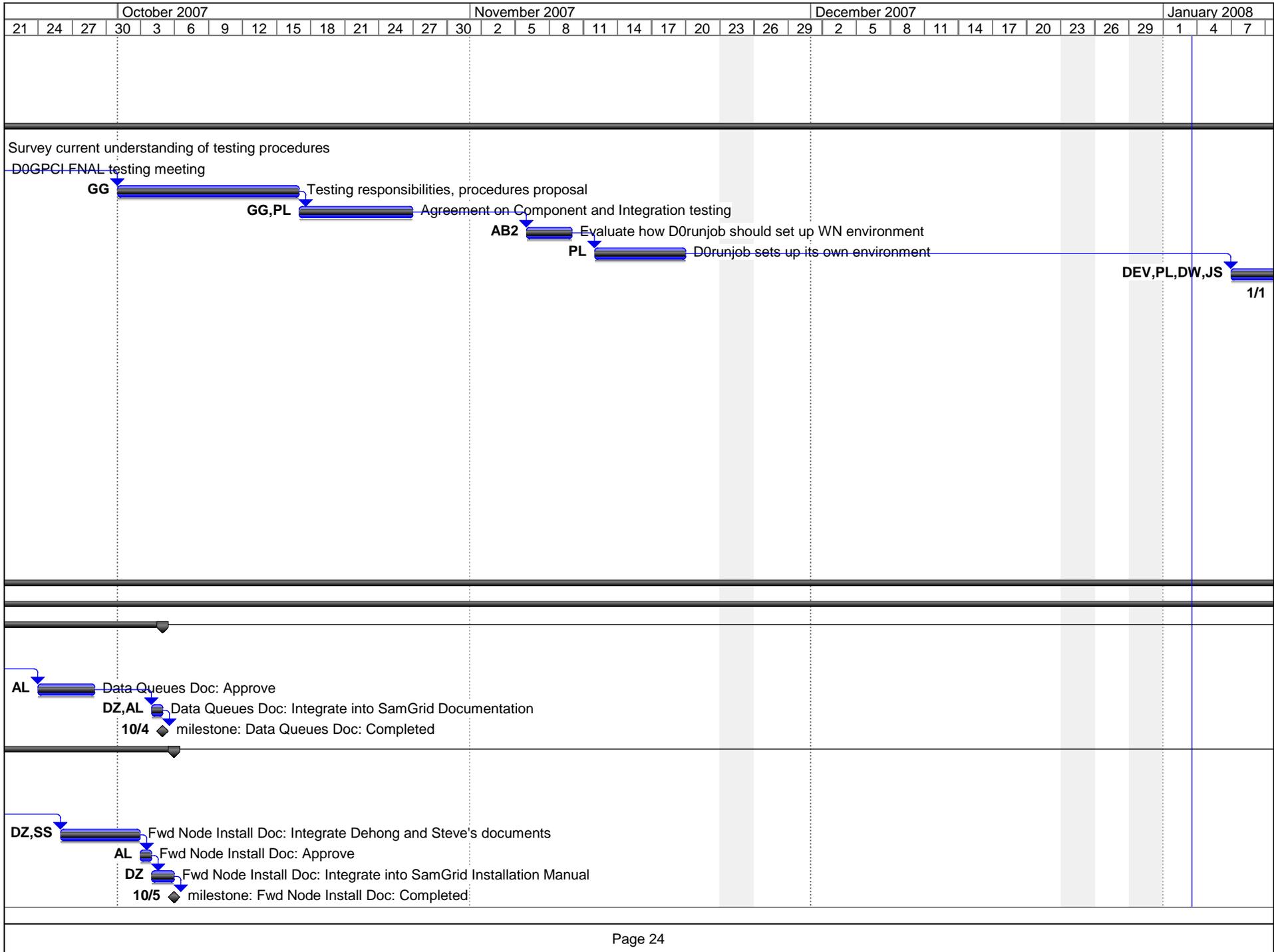


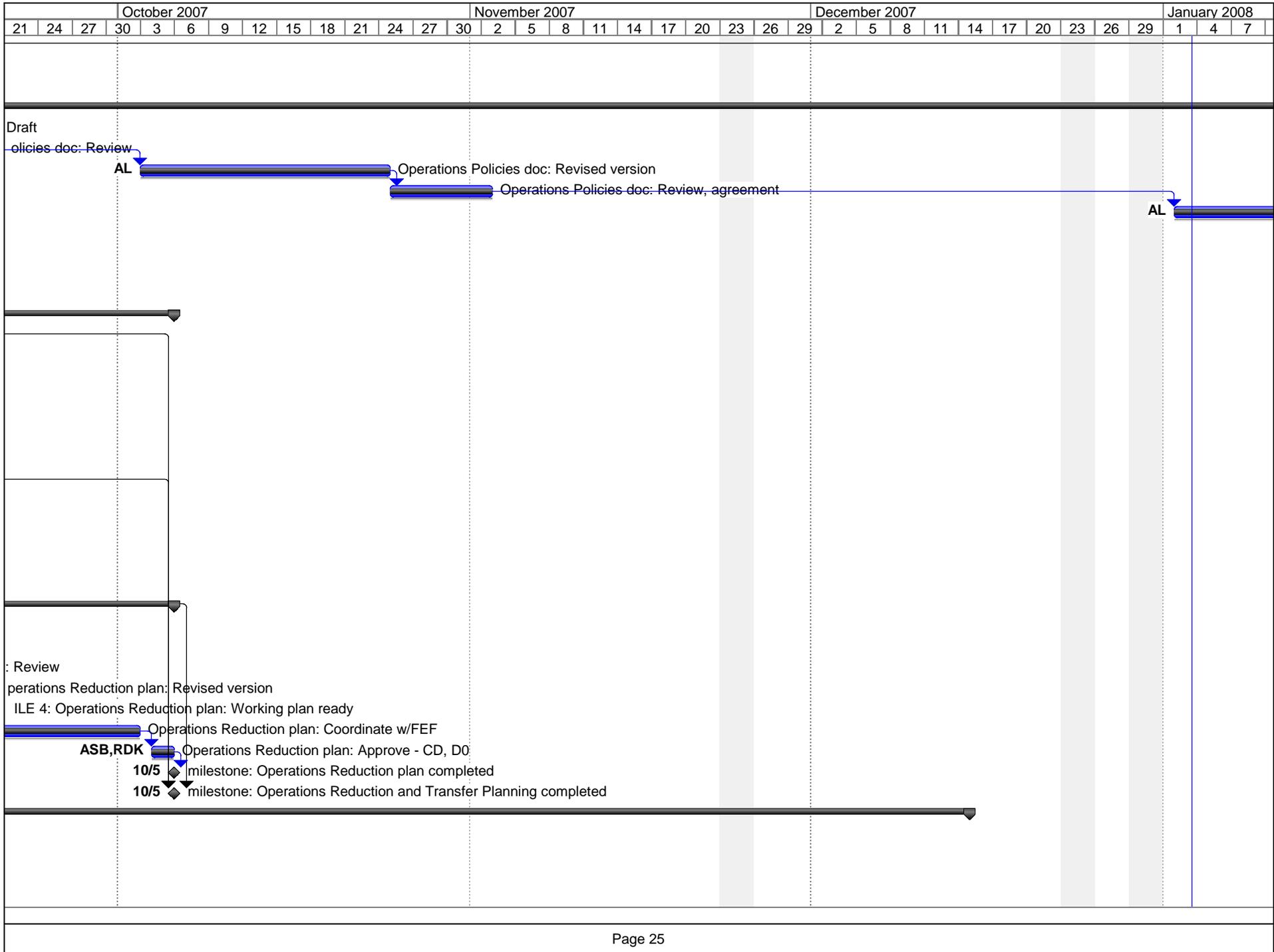


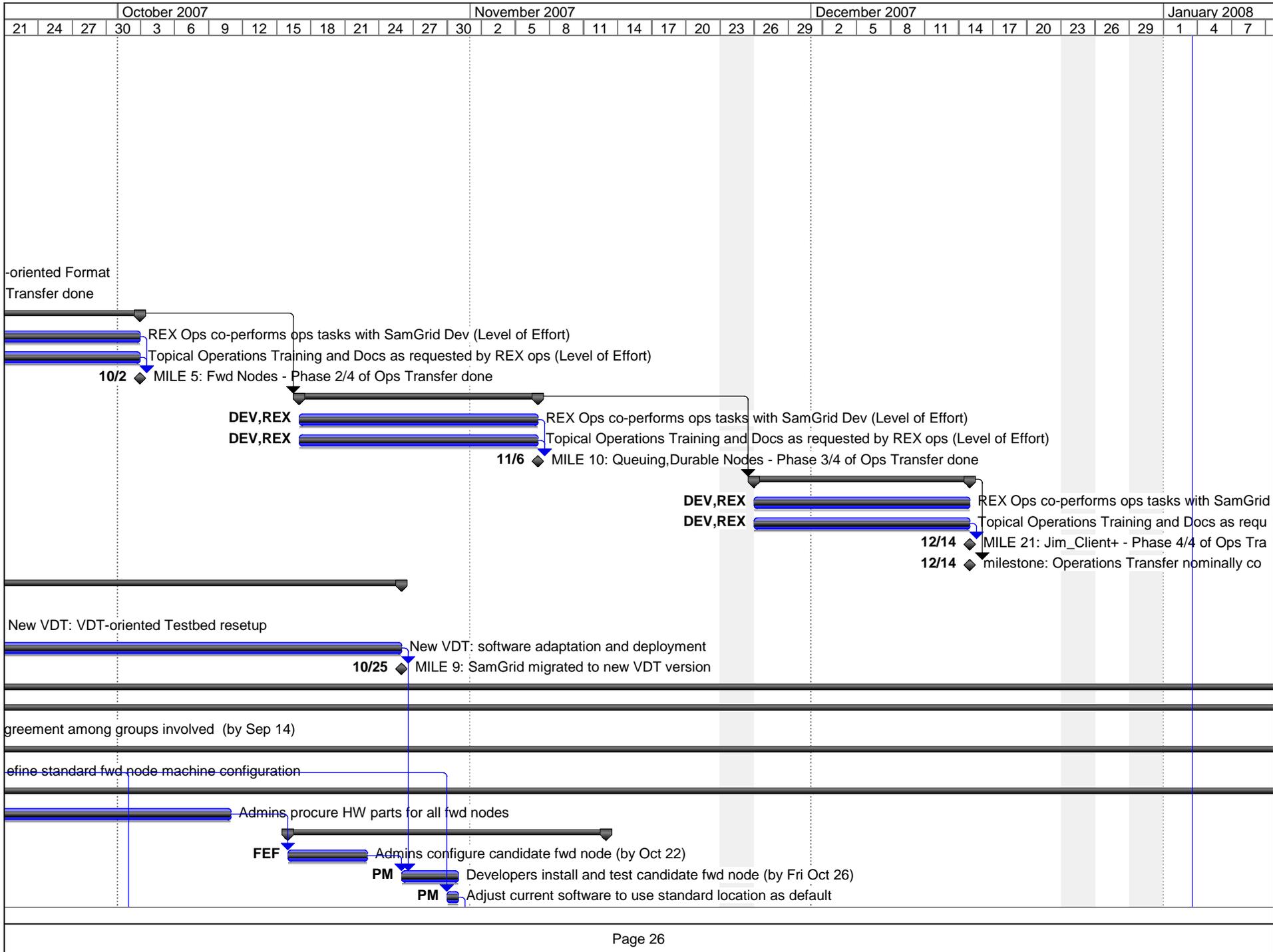


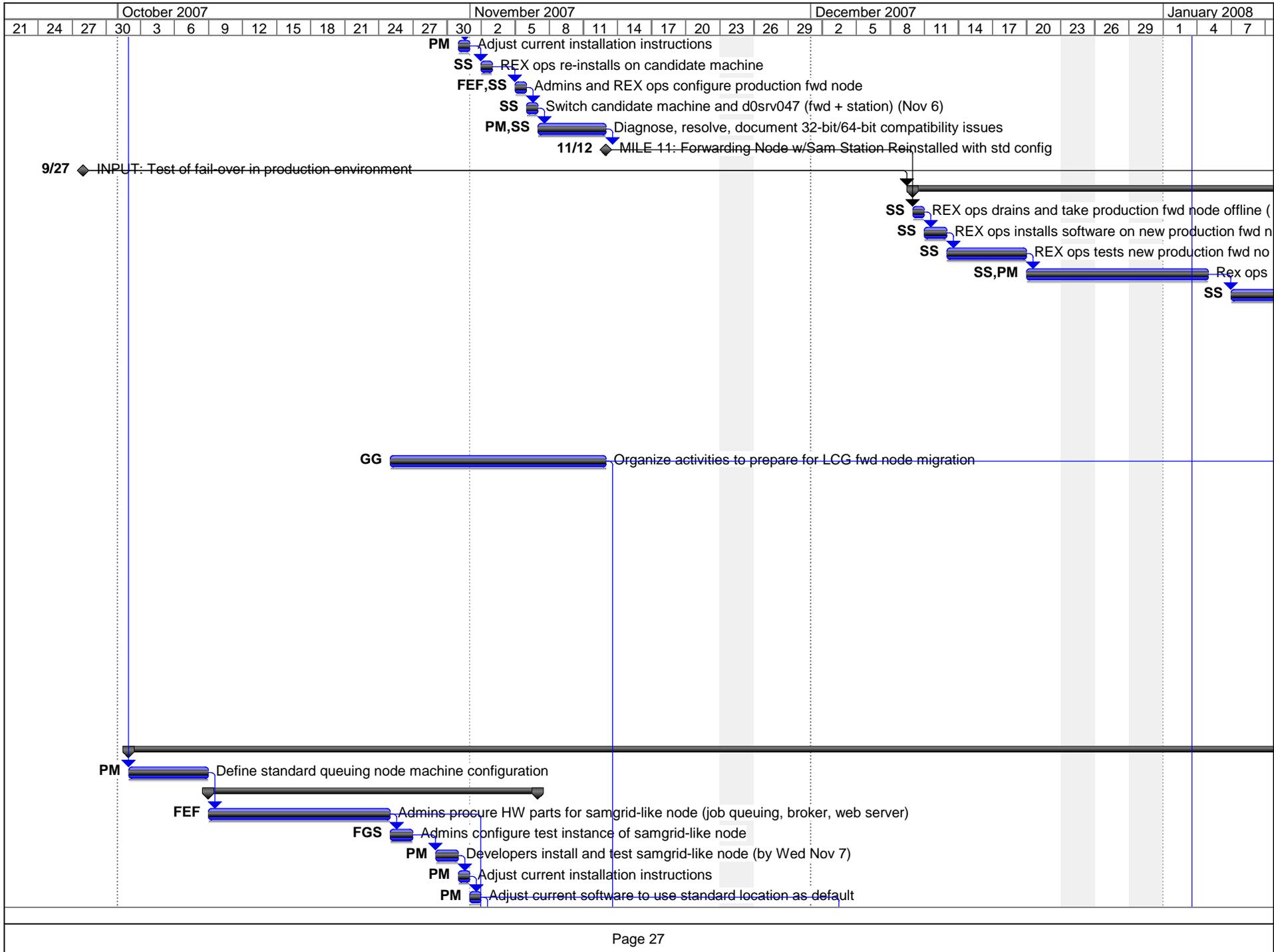


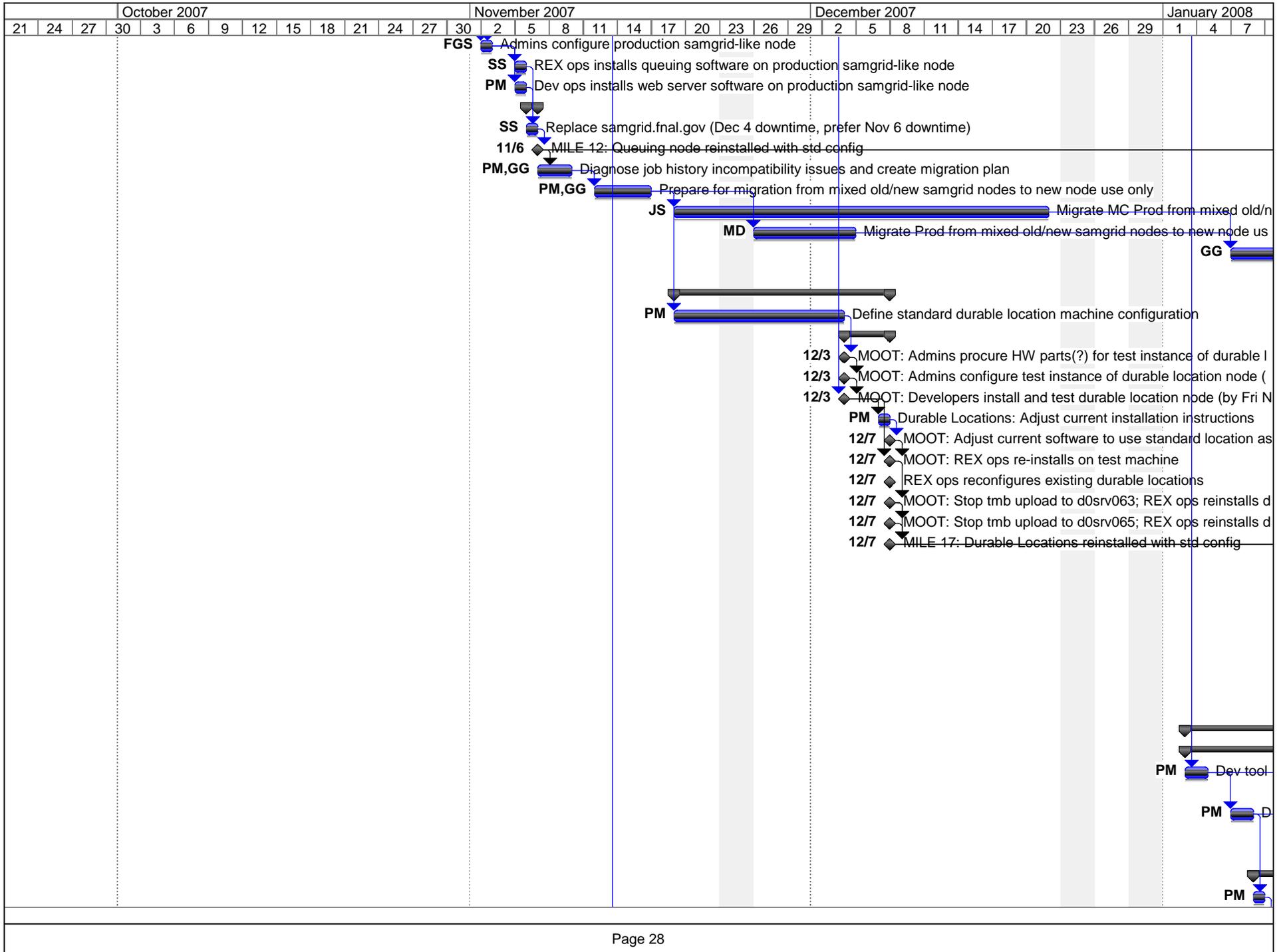


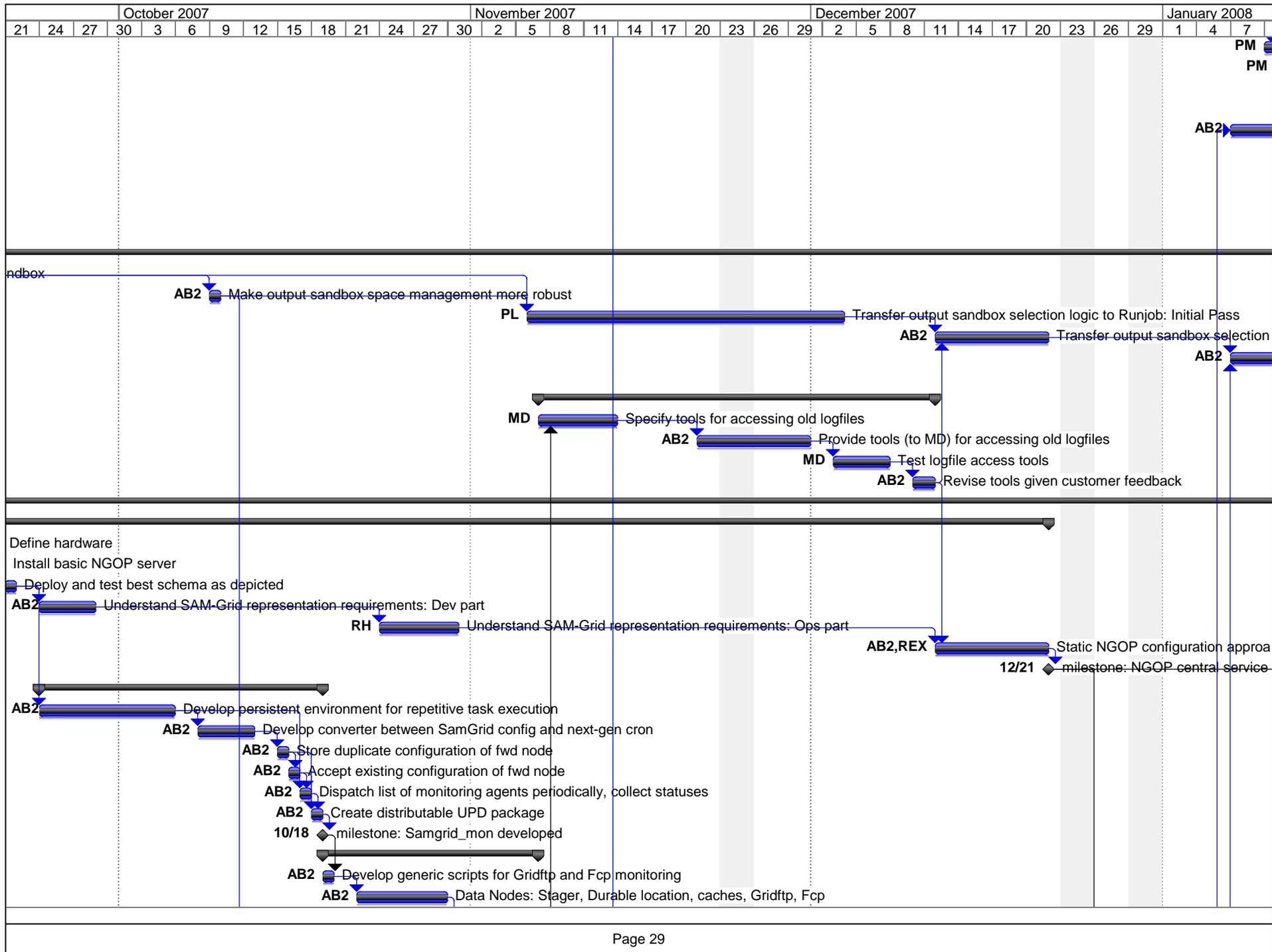


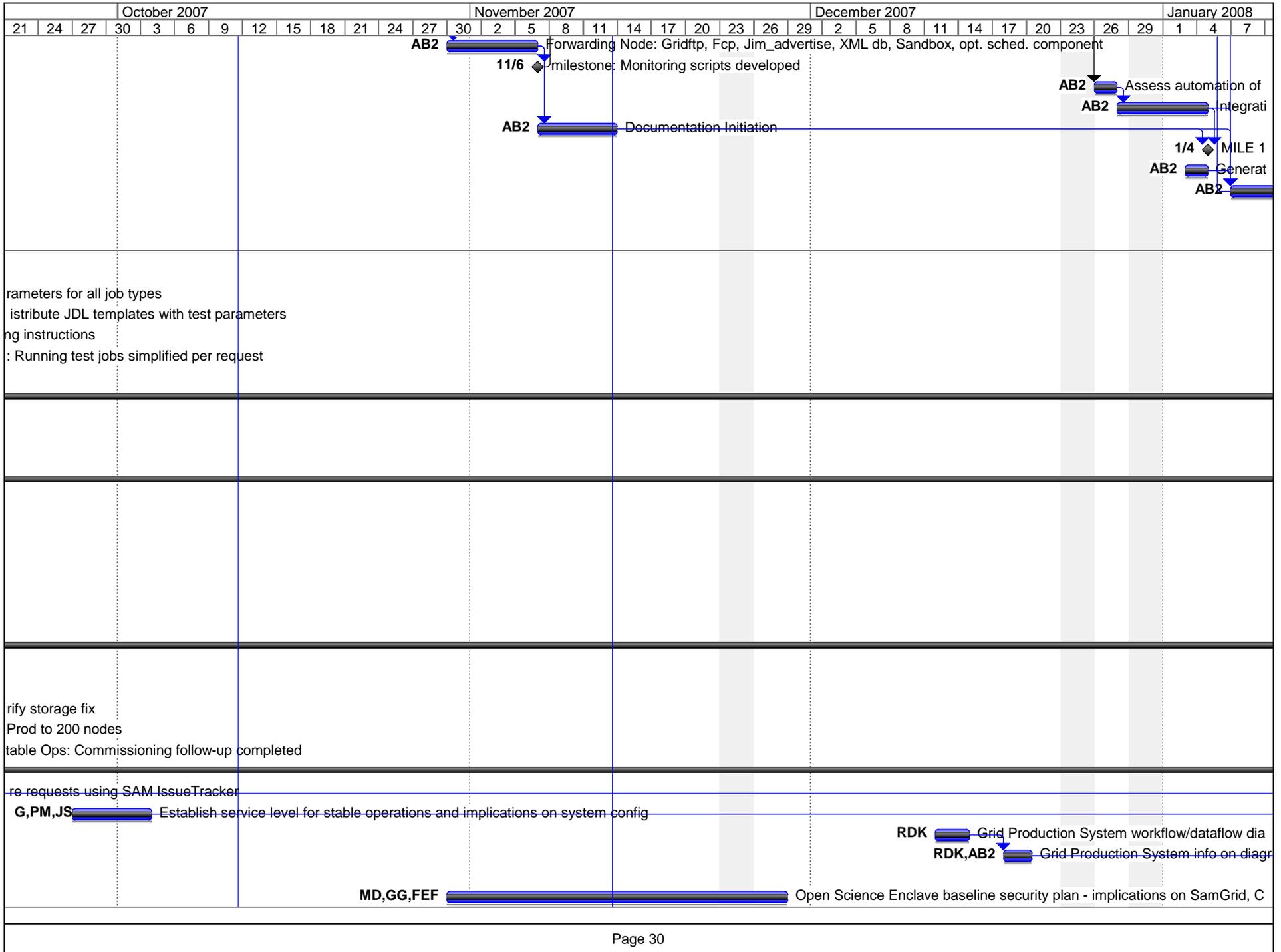


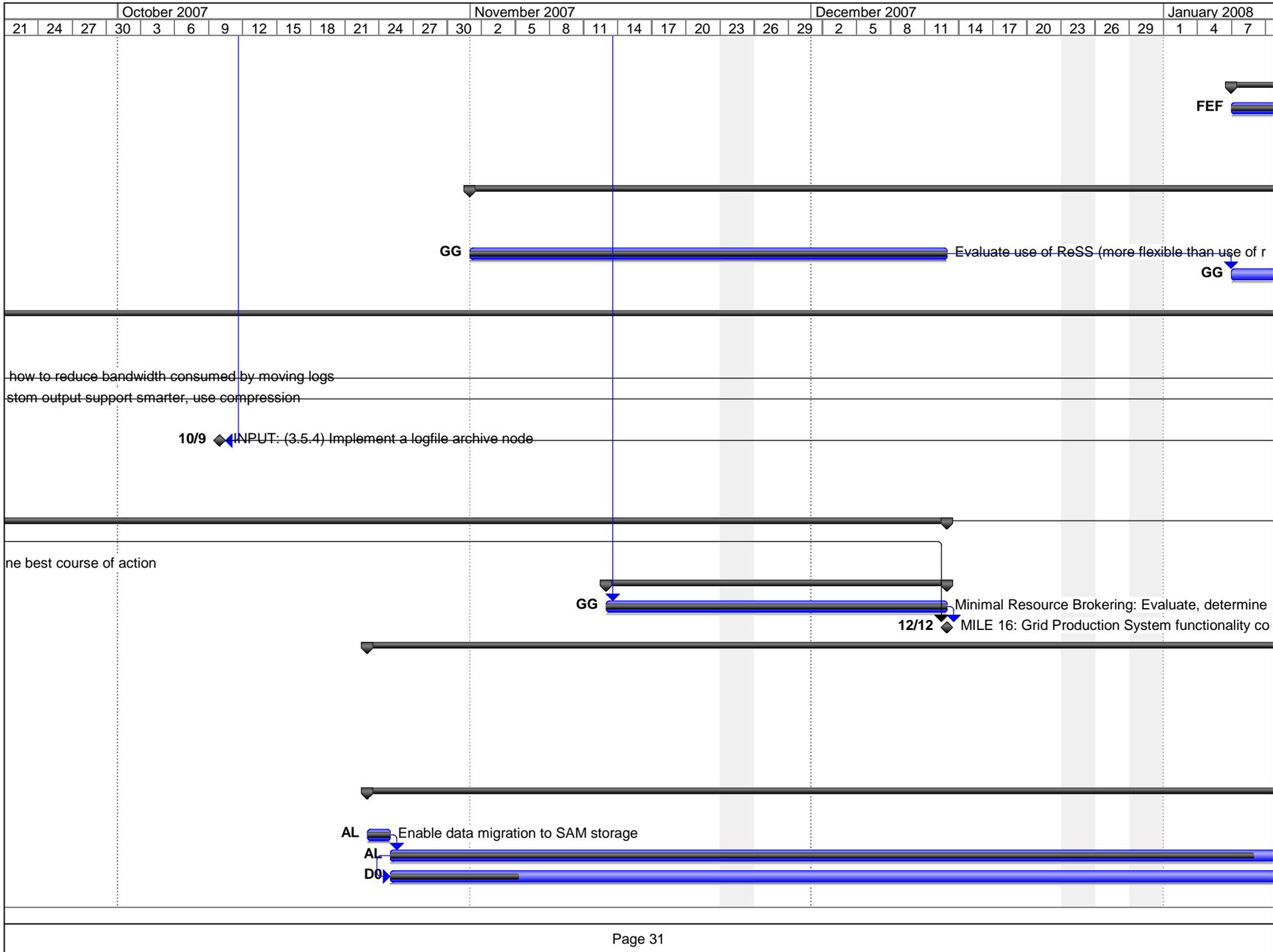


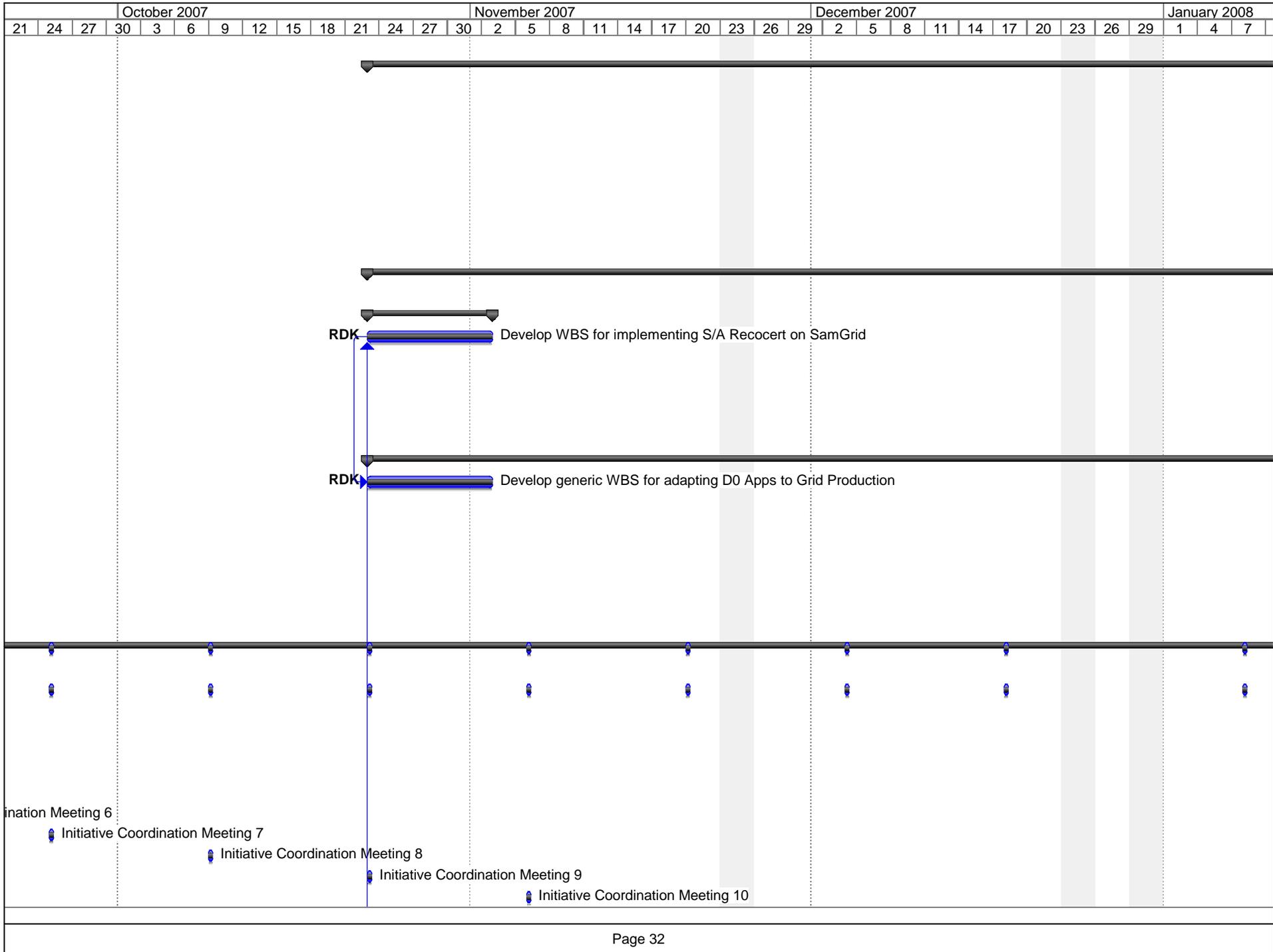


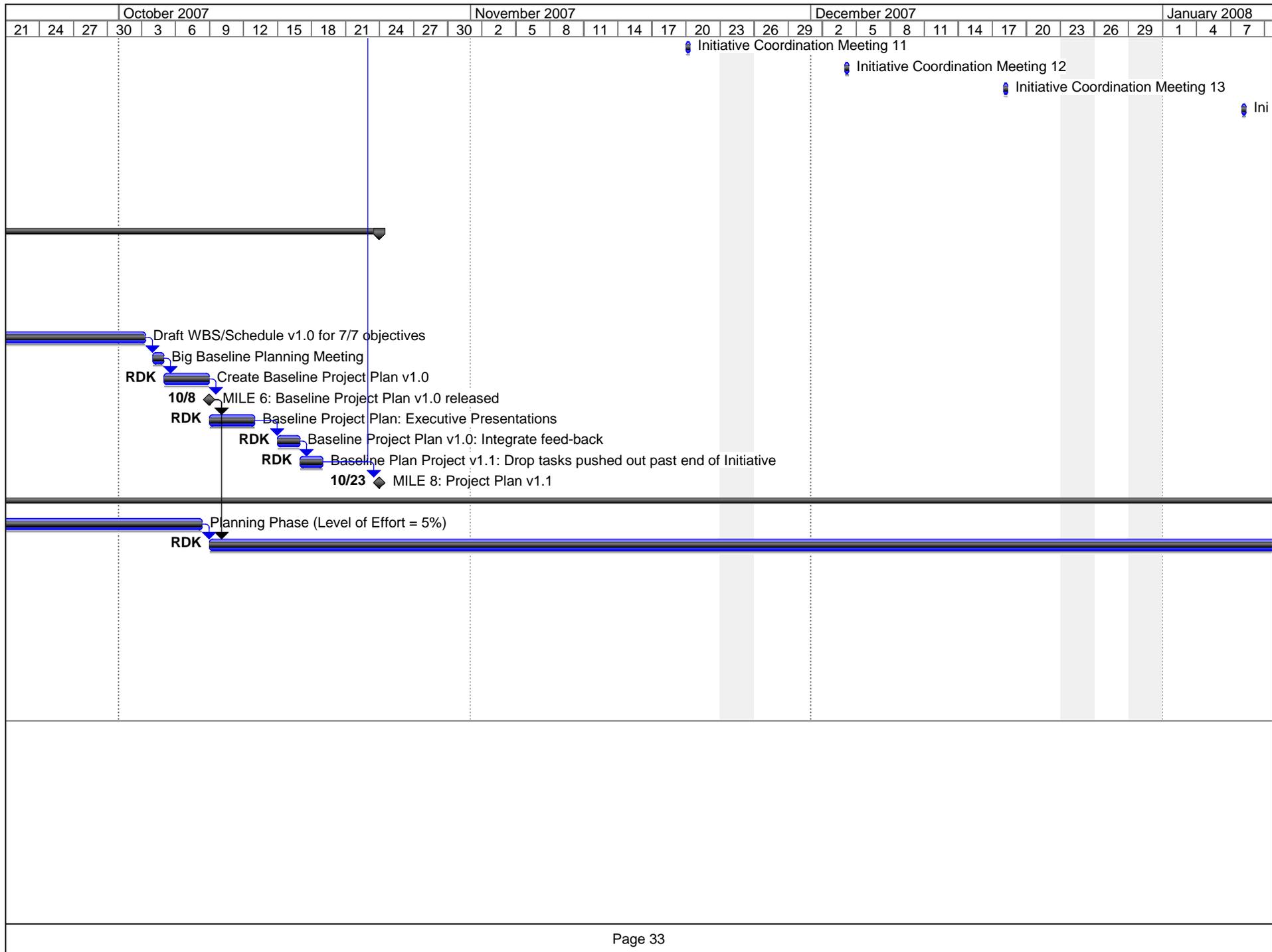


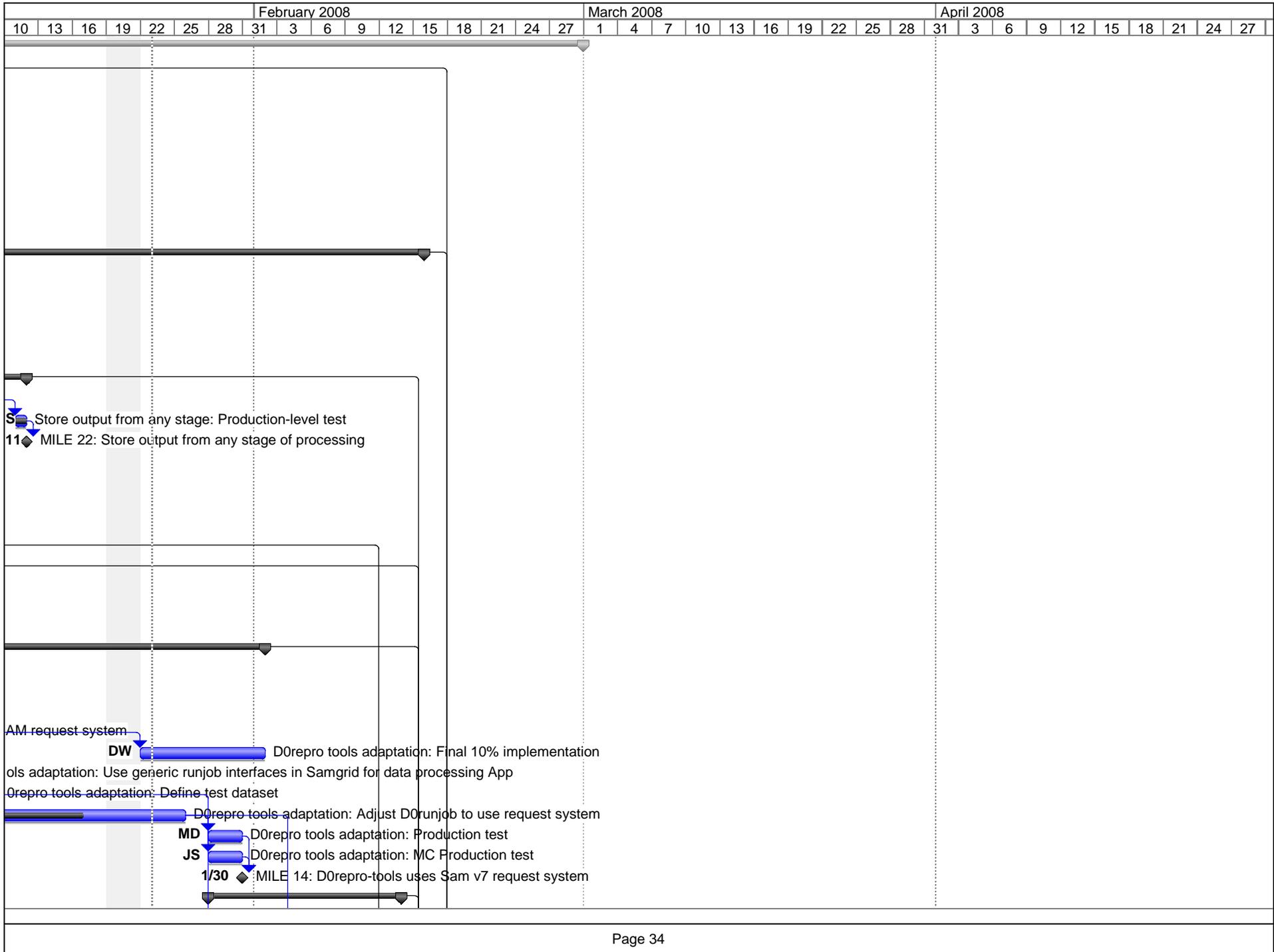


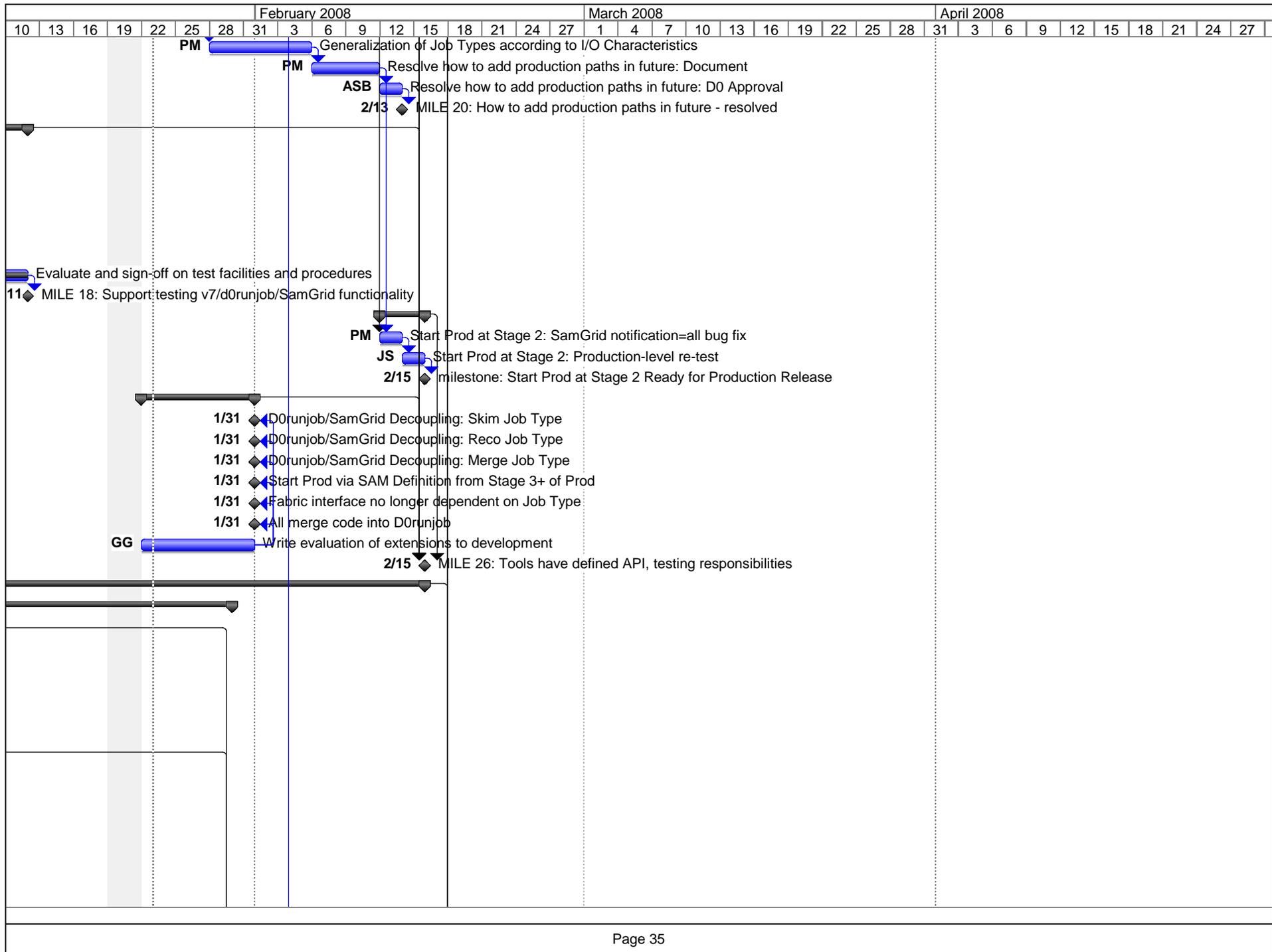


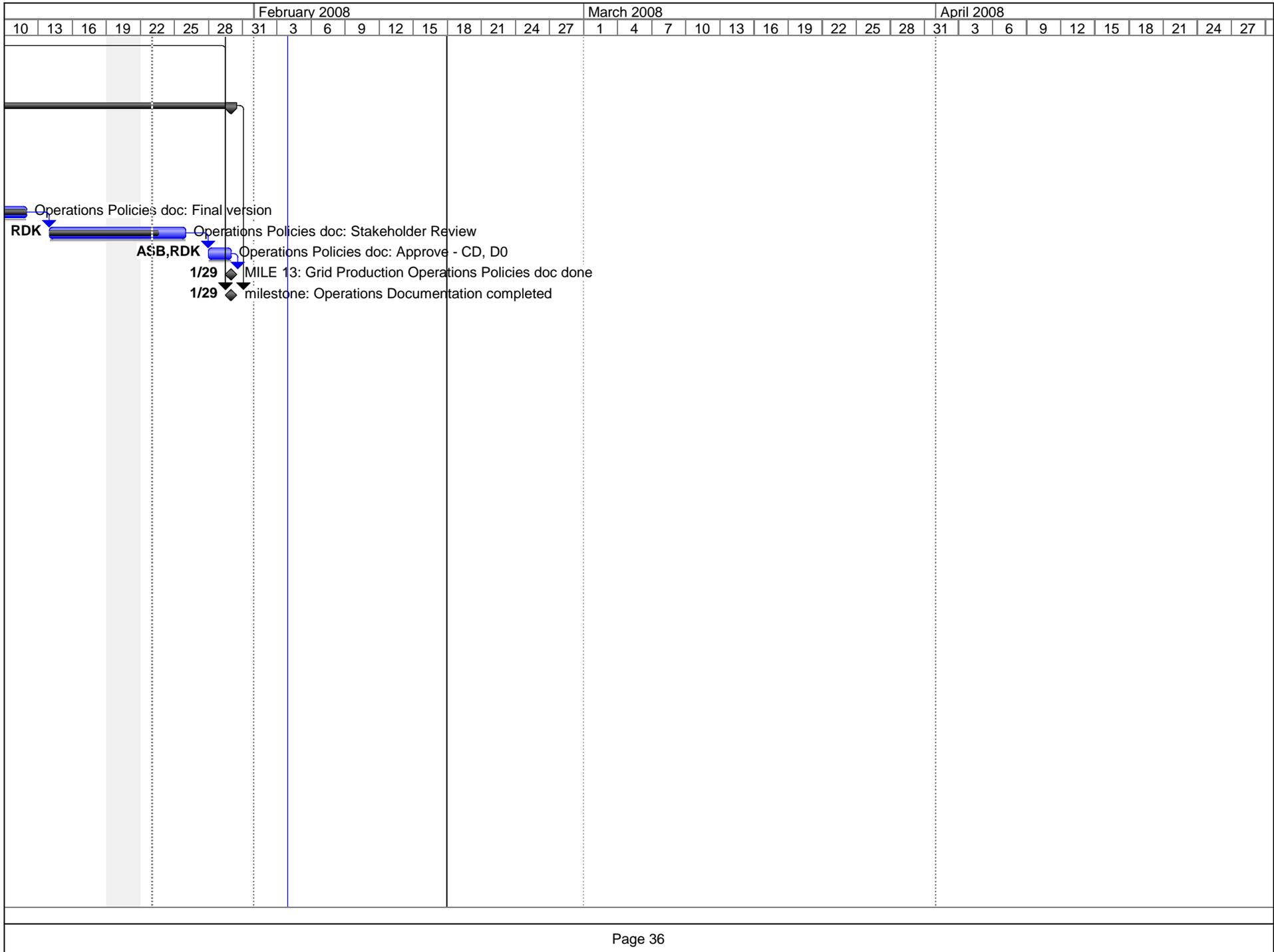




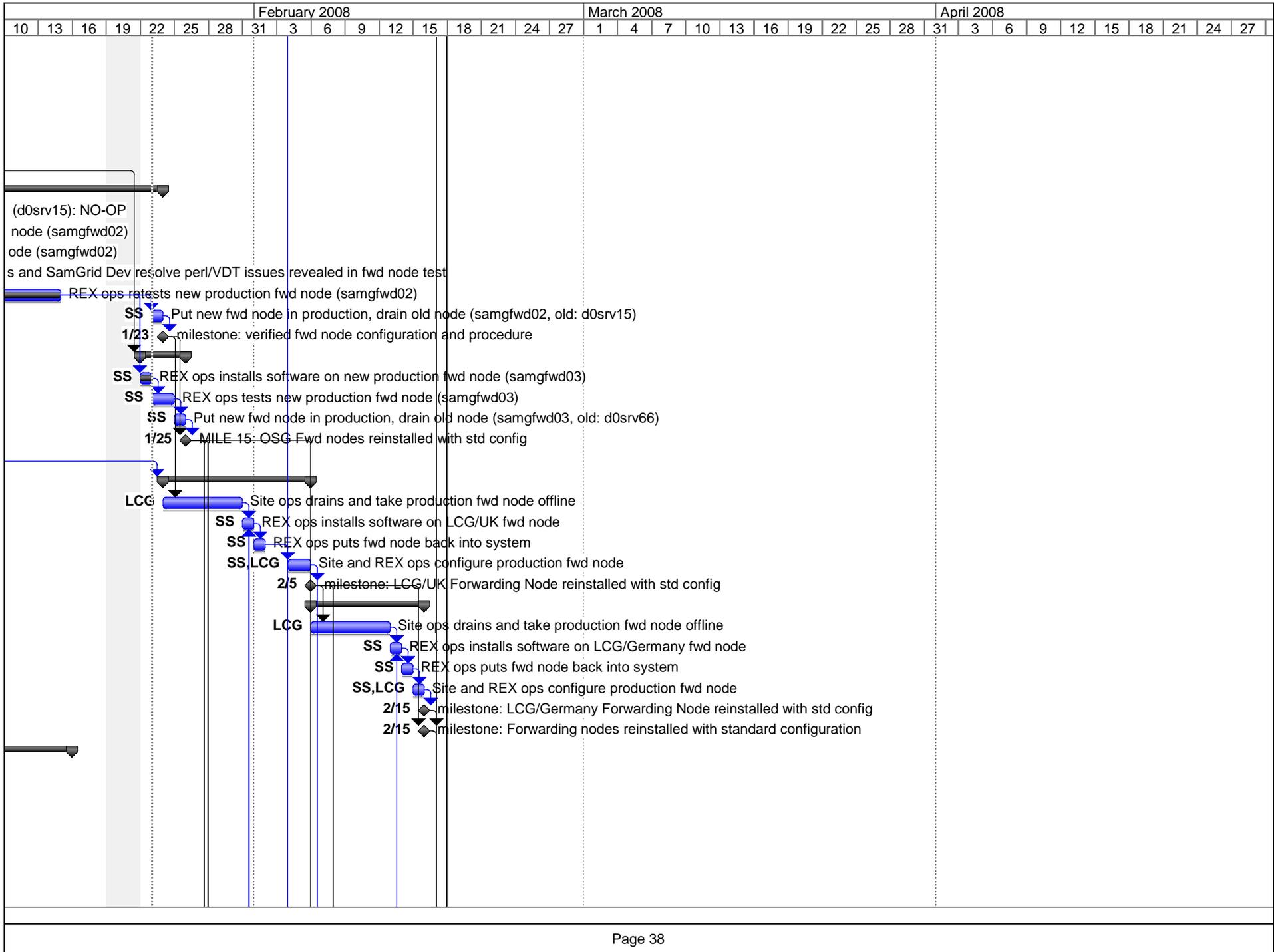


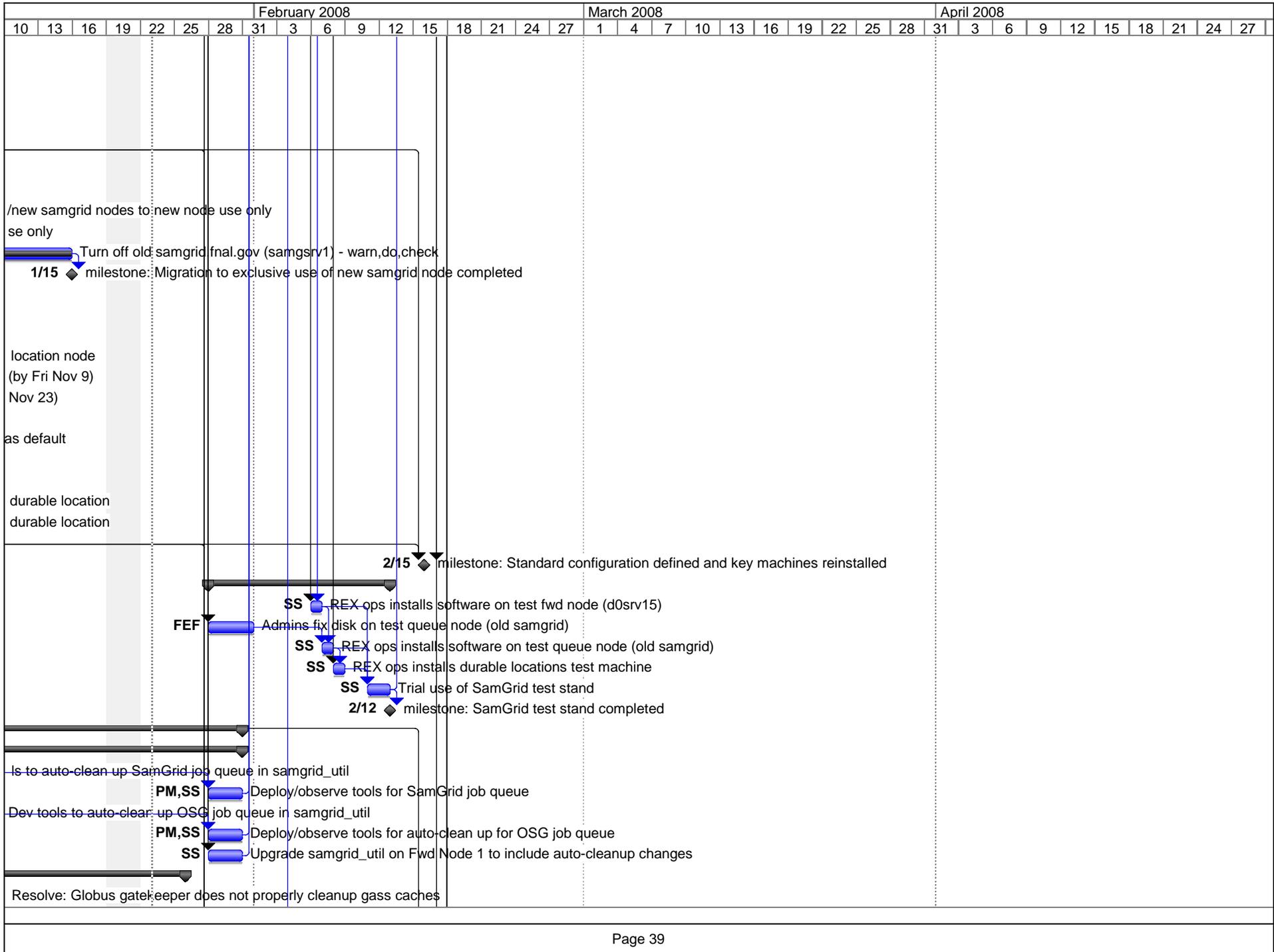


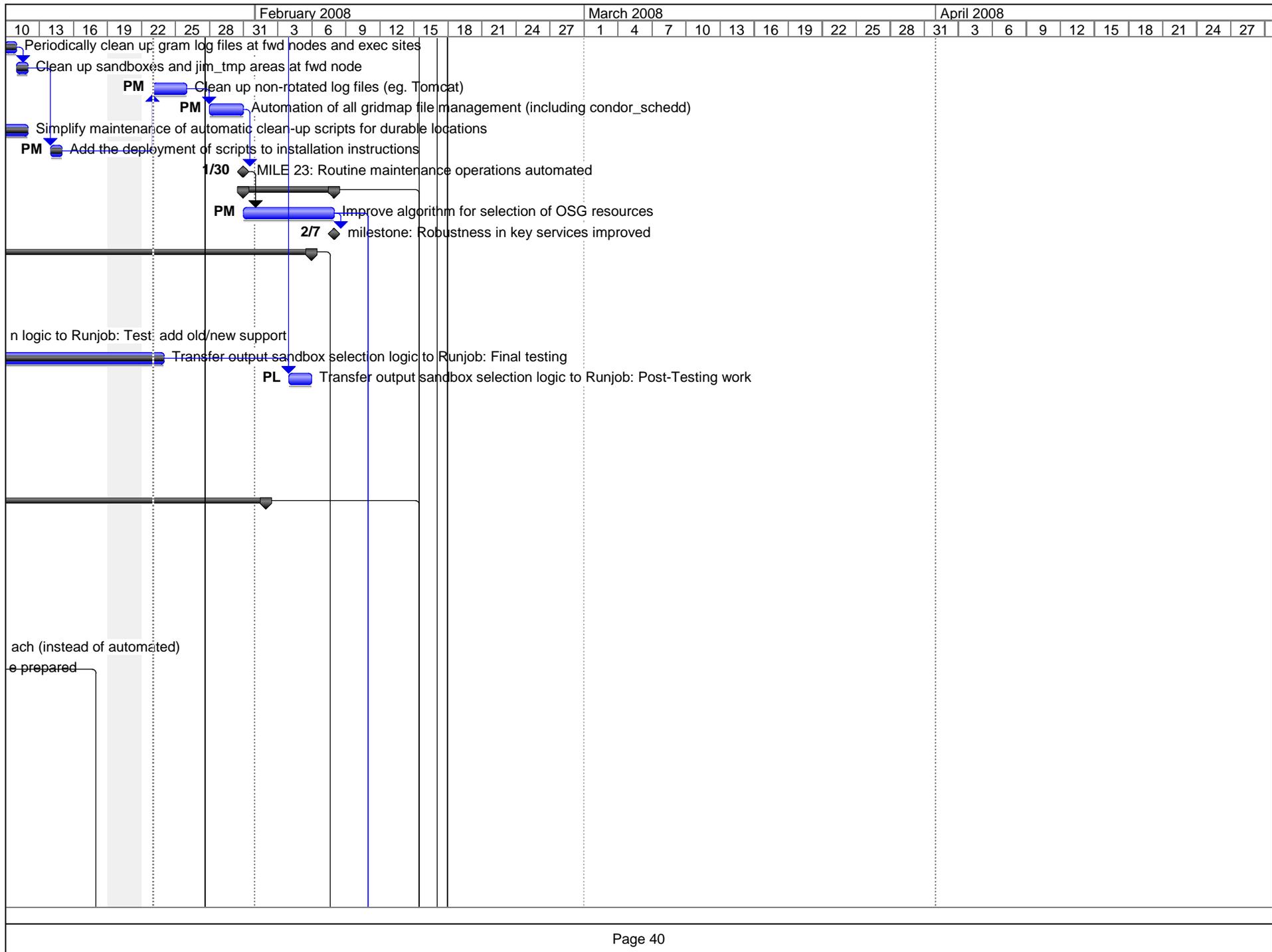


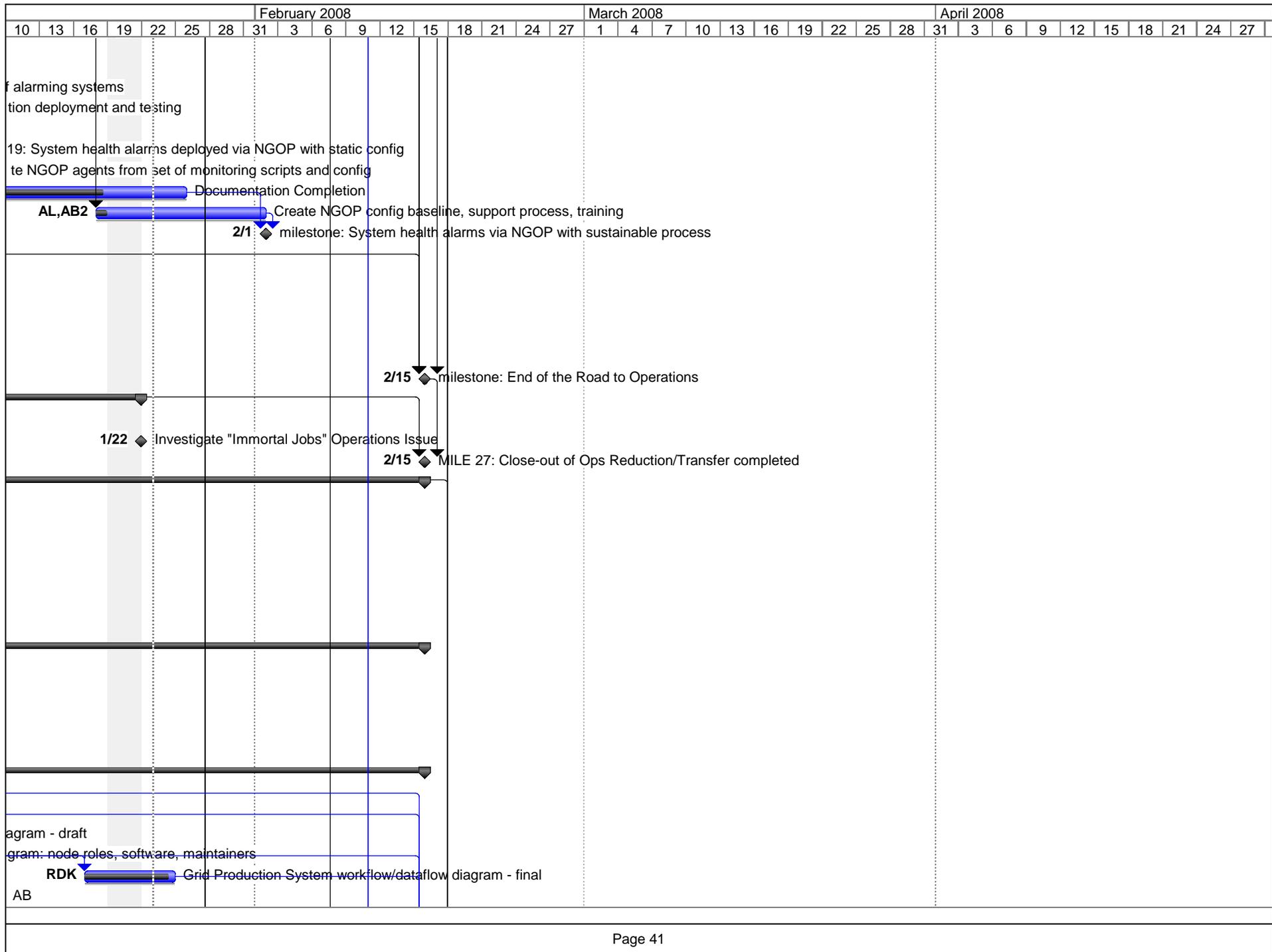


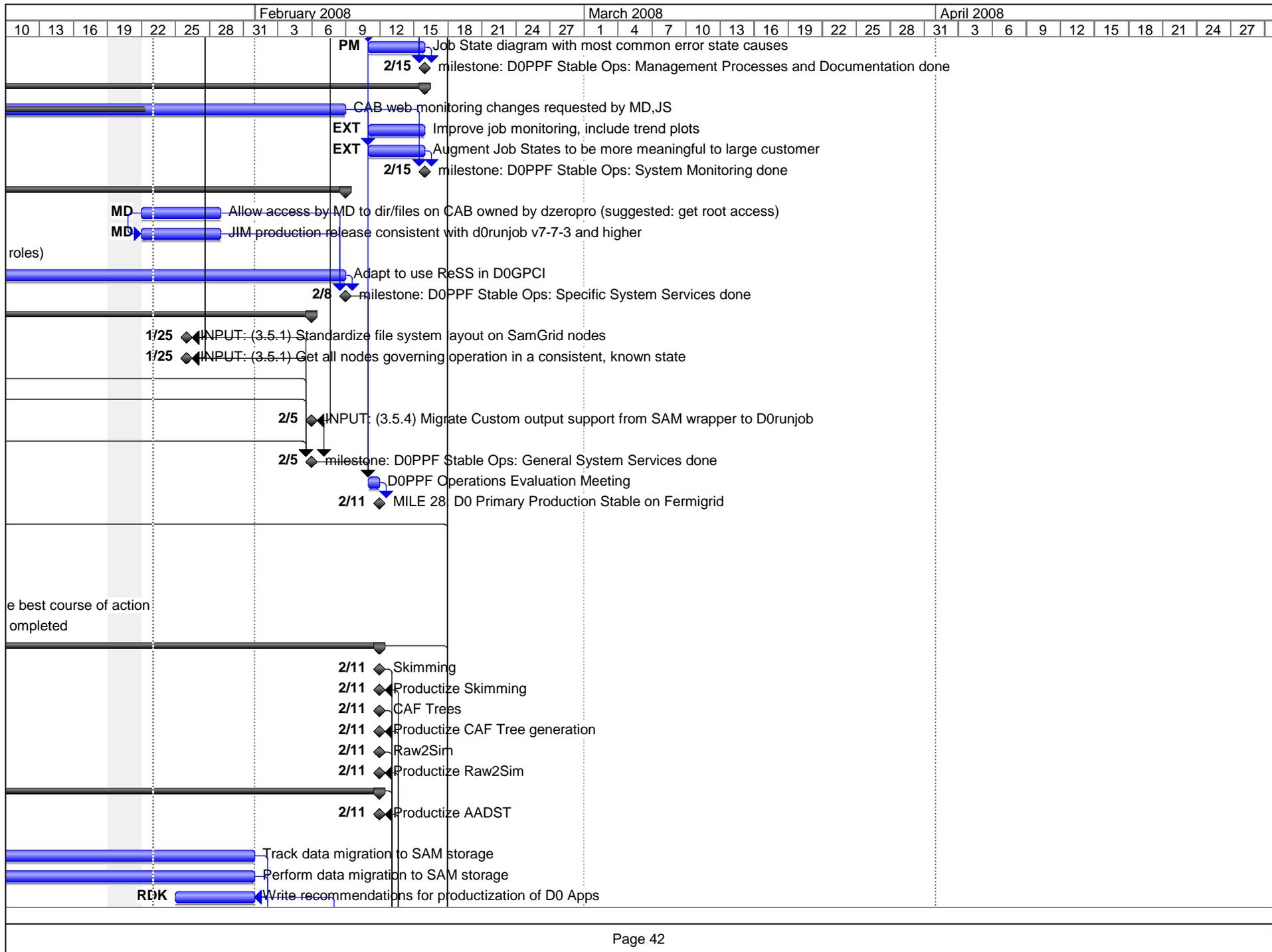
February 2008														March 2008														April 2008													
10	13	16	19	22	25	28	31	3	6	9	12	15	18	21	24	27	1	4	7	10	13	16	19	22	25	28	31	3	6	9	12	15	18	21	24	27					
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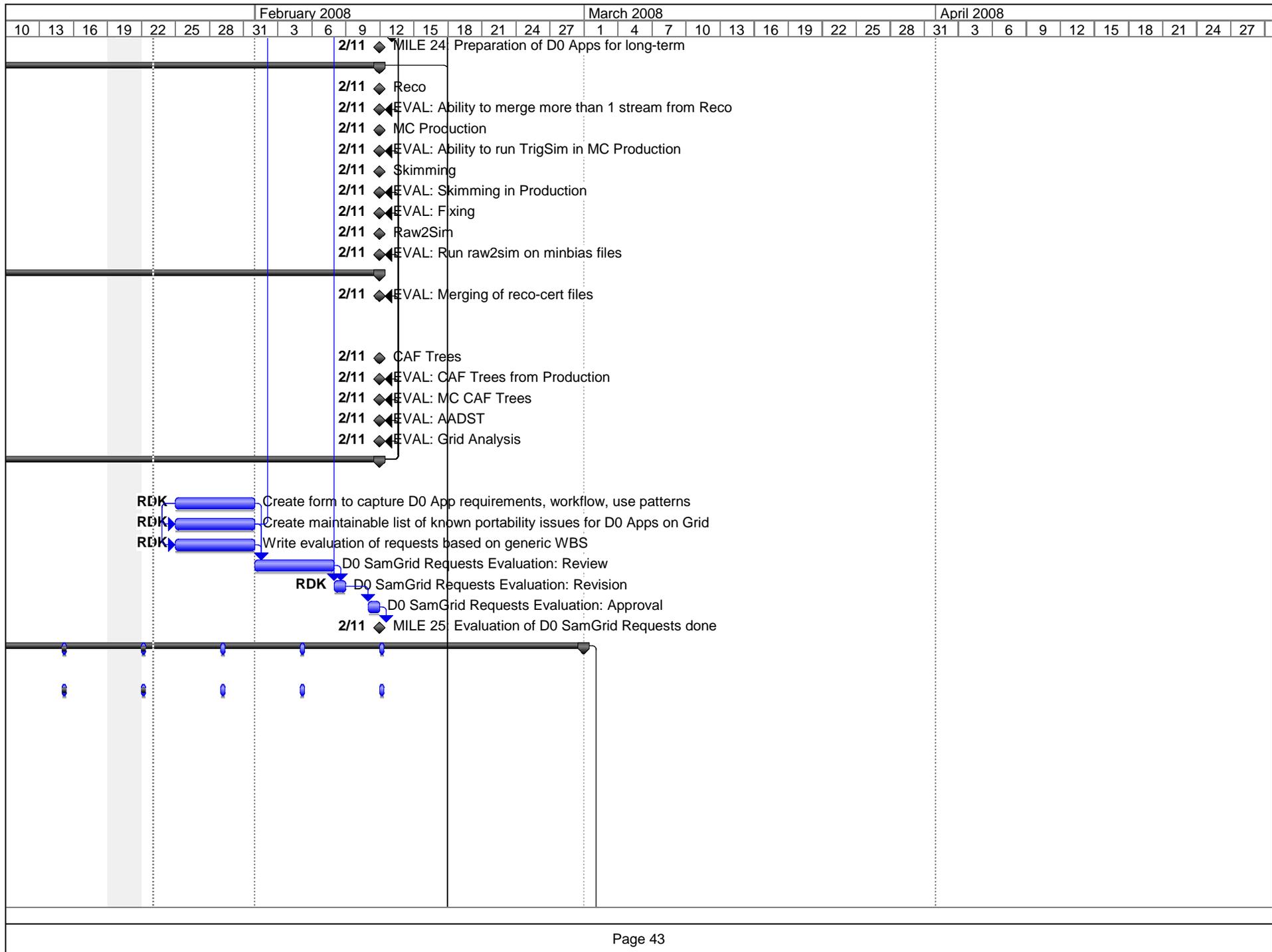


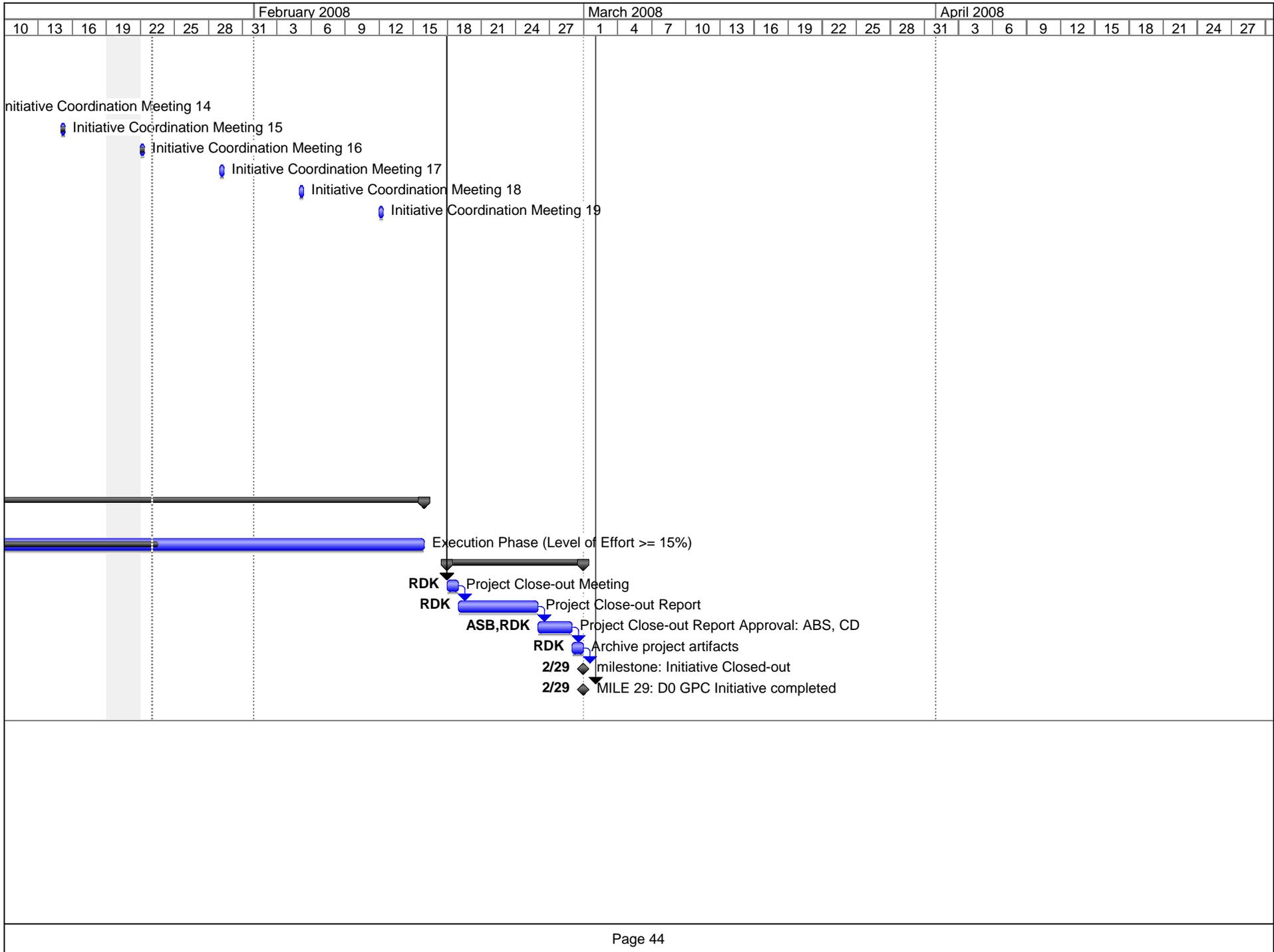












Project: D0 Grid Production Computin  
Date: Wed 1/23/08

Task



Split



Progress



Milestone



Summary



Project Summary



External Tasks



External Milestone



Deadline

